## Quiz: Evaluating Exponential Functions

Question 1a of 15 ( 3 Evaluating Exponential Functions 92055)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 16, 16/1
Question:
Use the function below to find $\mathrm{F}(4)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=2^{x}$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 16. |

Question 1 b of 15 ( 3 Evaluating Exponential Functions 296530 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 81, 81/1
Question:
Use the function below to find $\mathrm{F}(4)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=3^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 81. |

Question 1c of 15 ( 3 Evaluating Exponential Functions 296531 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer: 27, 27/1
Question: Use the function below to find $F(3)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=3^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 27. |

Question 2a of 15 ( 3 Evaluating Exponential Functions 92056 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 64, 64/1
Question: Use the function below to find $F(6)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=2^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 64. |

Question 2b of 15 ( 3 Evaluating Exponential Functions 296532 )
Maximum Attempts: 1

| Question Type: | Text Fill In Blank |
| :--- | :--- |
| Maximum Score: | 2 |
| Is Case Sensitive: | false |
| Correct Answer: | $32,32 / 1$ |
| Question: | Use the function below to find $F(5)$. Use the slash ( / ) to enter fractions <br> if necessary. |

$F(x)=2^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 32. |

Question 2c of 15 ( 3 Evaluating Exponential Functions 296533 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer: 64, 64/1
Question: Use the function below to find $F(3)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=4^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 64. |

Question 3a of 15 ( 3 Evaluating Exponential Functions 92057 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false

Correct Answer:
Question:

729/7, 104 1/7, 104-1/7, 104 \& 1/7, 104 and 1/7, 104+1/7
Use the function below to find $F(6)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(x)=\frac{1}{7} \cdot 3^{x}
$$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $729 / 7$. |

Question 3b of 15 ( 3 Evaluating Exponential Functions 296534 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
Is Case Sensitive: 2
false
Correct Answer:
243/7, 34 5/7, 34-5/7, 34 \& 5/7, 34 and 5/7, 34+5/7
Use the function below to find $F(5)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(x)=\frac{1}{7} \cdot 3^{x}
$$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $243 / 7$. |

Question 3c of 15 ( 3 Evaluating Exponential Functions 296535 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: $\quad 2187 / 7,3123 / 7,312-3 / 7,312$ \& 3/7, 312 and 3/7, 312+3/7

Question: Use the function below to find $F(7)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(x)=\frac{1}{7} \cdot 3^{x}
$$



|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $2187 / 7$. |

## Question 4a of 15 ( 3 Evaluating Exponential Functions 92058 )

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer: $\quad 16 / 3,51 / 3,5-1 / 3,5 \& 1 / 3,5$ and $1 / 3,5+1 / 3$
Question: Use the function below to find $F(2)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(x)=\frac{1}{3} \cdot 4^{x}
$$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $16 / 3$. |

Question 4b of 15 ( 3 Evaluating Exponential Functions 296536 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer:
64/3, 21 1/3, 21-1/3, 21 \& 1/3, 21 and 1/3, 21+1/3
Use the function below to find $\mathrm{F}(3)$. Use the slash ( / ) to enter fractions
if necessary.

$$
F(x)=\frac{1}{3} \cdot 4^{x}
$$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $64 / 3$. |

Question 4c of 15 ( 3 Evaluating Exponential Functions 296537 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: $\quad 256 / 3,851 / 3,85-1 / 3,85$ \& 1/3, 85 and $1 / 3,85+1 / 3$
Question:
Use the function below to find $\mathrm{F}(4)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=\frac{1}{3} \cdot 4^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $256 / 3$. |

Question 5a of 15 ( 3 Evaluating Exponential Functions 92059 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 7/6561
Question: Use the function below to find $F(4)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(x)=7 \cdot\left(\frac{1}{9}\right)^{x}
$$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 7/6561. |

Question 5b of 15 (3 Evaluating Exponential Functions 296538 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 7/729
Question:
Use the function below to find $\mathrm{F}(3)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(x)=7 \cdot\left(\frac{1}{9}\right)^{x}
$$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $7 / 729$. |

Question 5c of 15 ( 3 Evaluating Exponential Functions 296539 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 7/59049
Question:
Use the function below to find $\mathrm{F}(5)$. Use the slash ( / ) to enter fractions

$$
F(x)=7 \cdot\left(\frac{1}{9}\right)^{x}
$$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $7 / 59049$. |

## Question 6a of 15 ( 3 Evaluating Exponential Functions 92060 )

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 5/7, 35/49
Question:
Use the function below to find $F(2)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(x)=35 \cdot\left(\frac{1}{7}\right)^{x}
$$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $5 / 7$. |

Question 6b of 15 ( 3 Evaluating Exponential Functions 296540 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 5/49, 35/343

Question: Use the function below to find $F(3)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(x)=35 \cdot\left(\frac{1}{7}\right)^{x}
$$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $5 / 49$. |

Question 6c of 15 ( 3 Evaluating Exponential Functions 296541 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer:
5/343, 35/2401
Use the function below to find $F(4)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=35 \cdot\left(\frac{1}{7}\right)^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $5 / 343$. |

Question 7a of 15 ( 3 Evaluating Exponential Functions 296529 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 125, 125/1

Question: Use the function below to find $F(3)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=5^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 125. |

Question 7 b of 15 ( 3 Evaluating Exponential Functions 296542 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 243, 243/1
Question: Use the function below to find $F(5)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=3^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 243. |

## Question 7c of 15 ( 3 Evaluating Exponential Functions 296543 )

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 625, 625/1
Question:
Use the function below to find $F(4)$. Use the slash ( / ) to enter fractions if necessary.
$F(x)=5^{x}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 625. |

Question 8a of 15 ( 3 Evaluating Exponential Functions 119534 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer:
1/4, 0.25, . 25
Question: Use the function below to find $F(1)$. Use the slash ( / ) to enter fractions if necessary.
$F(t)=2 \cdot \frac{1}{2^{3 t}}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $1 / 4$. |

Question 8b of 15 ( 3 Evaluating Exponential Functions 296544 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: $\quad 1 / 2,0.5, .5$
Question:
Use the function below to find $F(1)$. Use the slash ( / ) to enter fractions if necessary.

Fी $=44_{2}^{1}$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feed back |
| :--- | :--- |
|  | The correct answer is: $1 / 2$. |

Question 8c of 15 ( 3 Evaluating Exponential Functions 296545 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer:
$0.125,1 / 8, .125$
Use the function below to find $F(2)$. Use the slash ( / ) to enter fractions if necessary.

$$
F(t)=2 \cdot \frac{1}{2^{3 t}}
$$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $1 / 8$. |

Question 9a of 15 ( 1 Evaluating Exponential Functions 119536 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

True-False
2
Increasing the number of times an investment is compounded in a year does not affect the dollar amount in the account.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |

Question 9b of 15 ( 1 Evaluating Exponential Functions 296546 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
Increasing the number of times an investment is compounded in a year affects the dollar amount in the account.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | True |  |
| B. | False |  |

Global I ncorrect Feedback
The correct answer is: True.

Question 9c of 15 (1 Evaluating Exponential Functions 296547 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: Decreasing the number of times an investment is compounded in a year does not affect the dollar amount in the account.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *. | False |  |

Global I ncorrect Feedback
The correct answer is: False.

Question 10a of 15 (1 Evaluating Exponential Functions 119539 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
2

True-False

An exponential growth function represents a quantity that has a constant doubling time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *. | True |  |
| B. | False |  |

Question 10b of 15 ( 1 Evaluating Exponential Functions 296548 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: An exponential growth function represents a quantity that has a constant halving time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |

Global I ncorrect Feedback
The correct answer is: False.

Question 10c of 15 (1 Evaluating Exponential Functions 296549 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

True-False
2
An exponential growth function represents a quantity that has an increasing doubling time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |

Global I ncorrect Feedback
The correct answer is: False.

Question 11a of 15 (1 Evaluating Exponential Functions 119540)

## Maximum Attempts: <br> 1

Question Type:
Maximum Score:
Question:
True-False
2
An exponential decay function represents a quantity that has a constant doubling time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |


| *B. | False |  |
| :--- | :--- | :--- |
|  |  |  |
|  | Global Incorrect Feedback |  |
|  | The correct answer is: False. |  |

Question 11b of 15 (1 Evaluating Exponential Functions 296550)
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
True-False
2
An exponential decay function represents a quantity that has a decreasing halving time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |

Global I ncorrect Feedback
The correct answer is: False.

Question 11c of 15 (1 Evaluating Exponential Functions 296551)
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

True-False
2
An exponential decay function represents a quantity that has a constant halving time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| B. | False |  |

## Global I ncorrect Feedback

The correct answer is: True.

## Question 12a of 15 (1 Evaluating Exponential Functions 119785 )

## Maximum Attempts: <br> 1

Question Type: Multiple Choice
Maximum Score:
Question:

## 2

An exponential function is written as $\mathrm{F}(\mathrm{x})=\mathrm{a} \cdot \mathrm{b}^{\mathrm{x}}$, where the coefficient a is a constant, the base b is $\qquad$ but not equal to 1 , and the exponent x is any number.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | real |  |
| B. | negative |  |
| C. | an integer |  |
| *D. | positive |  |

Global I ncorrect Feedback
The correct answer is: positive.

Question 12b of 15 (1 Evaluating Exponential Functions 296552 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score:
Question:

2
An exponential function is written as $F(x)=a * b^{x}$, where the coefficient a is $\qquad$ _, the base $b$ is positive but not equal to 1 , and the exponent $x$ is any number.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | a constant |  |
| B. | an integer |  |
| C. | an exponent |  |
| D. | a variable |  |

Global I ncorrect Feedback
The correct answer is: a constant.

## Question 12c of 15 (1 Evaluating Exponential Functions 296553)

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
Multiple Choice
2
An exponential function is written as $F(x)=a \not b^{x}$, where the coefficient $a$ is a constant, the base $b$ is positive but not equal to 1 , and the exponent $x$ is $\qquad$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | negative |  |
| *B. | any number |  |
| C. | an integer |  |
| D. | positive |  |

Question 13a of 15 (2 Evaluating Exponential Functions 119787)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Exponential growth and decay functions are written in standard form as $\mathrm{F}(\mathrm{t})=\mathrm{A}_{0} \cdot \mathrm{~b}^{\mathrm{kt}}$, where $\mathrm{A}_{0}$ is an initial amount, k is the growth rate, and t is $\qquad$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | temperature |  |
| B. | total |  |
| *C. | time |  |
| D. | altitude |  |


| Global I ncorrect Feedback |
| :--- |
| The correct answer is: time. |

Question 13b of 15 (2 Evaluating Exponential Functions 296554 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
Exponential growth and decay functions are written in standard form as $F(t)=A_{0} b^{k t}$, where $A_{0}$ is an initial amount, $k$ is the growth rate, and $t$ is $\qquad$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | temperature |  |
| B. | total |  |
| *. | time |  |
| D. | altitude |  |

Global I ncorrect Feedback
The correct answer is: time.

Question 13c of 15 ( 2 Evaluating Exponential Functions 296555 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Choice
2
Exponential growth and decay functions are written in standard form as $F(t)=A_{0} b^{k t}$, where $A_{0}$ is an initial amount, $k$ is the growth rate, and $t$ is $\qquad$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | temperature |  |
| B. | total |  |
| *. | time |  |
| D. | altitude |  |

Global I ncorrect Feedback
The correct answer is: time.

Question 14a of 15 (2 Evaluating Exponential Functions 119545 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
An exponential growth function describes an amount that decreases exponentially over time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |

Global I ncorrect Feedback
The correct answer is: False.

Question 14b of 15 (2 Evaluating Exponential Functions 296556 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
An exponential growth function describes an amount that increases constantly over time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| B. | False |  |

Global I ncorrect Feedback

Question 14c of 15 ( 2 Evaluating Exponential Functions 296557)
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
An exponential growth function describes an amount that decreases constantly over time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |

Global I ncorrect Feedback
The correct answer is: False.

Question 15a of 15 (2 Evaluating Exponential Functions 119546)
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
True-False
2
An exponential decay function describes an amount that decreases exponentially over time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *. | True |  |
| B. | False |  |

Global I ncorrect Feedback
The correct answer is: True.

Question 15b of 15 ( 2 Evaluating Exponential Functions 296558)

## Maximum Attempts: <br> 1

Question Type:
Maximum Score:
Question:
True-False
2
An exponential decay function describes an amount that increases exponentially over time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | True |  |
| *B. | False |  |

## Global I ncorrect Feedback

The correct answer is: False.

Question 15c of 15 ( 2 Evaluating Exponential Functions 296559)
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: An exponential decay function describes an amount that decreases exponentially over time.

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | True |  |
| B. | False |  |

Global I ncorrect Feedback
The correct answer is: True.
Quiz: Graphs of Exponential Functions
Question 1a of 15 ( 2 Graphs of Exponential Functions 91800 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
The domain of the function given below is the set of all real numbers greater than $\underset{2}{2}$
$F(x)=\left(\frac{1}{2}\right)^{x}$

```
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 1b of 15 ( 2 Graphs of Exponential Functions 298216 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:
True-False
2
The domain of the function given below is the set of all real numbers.
\[
F(x)=\left(\frac{1}{2}\right)^{x}
\]
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline *A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 1c of 15 ( 2 Graphs of Exponential Functions 298217)

\section*{Maximum Attempts: \\ 1}

Question Type: True-False

Maximum Score:
Question:

\section*{2}

The domain of the function given below is the set of all real numbers greater than 1.
\(F(x)=\left(\frac{1}{2}\right)^{x}\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 2a of 15 ( 2 Graphs of Exponential Functions 91801 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: The domain of the function given below is the set of all real numbers.
\(F(x)=\left(\frac{8}{3}\right)^{x}\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 2b of 15 ( 2 Graphs of Exponential Functions 298218 )
Maximum Attempts:
1
Question Type:
Maximum Score:
Question:
True-False
2
The domain of the function given below is the set of all real numbers greater than 1.
\[
F(x)=\left(\frac{8}{3}\right)^{x}
\]
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline
\end{tabular}

False
Global I ncorrect Feedback
The correct answer is: False.

Question 2c of 15 (2 Graphs of Exponential Functions 298219)
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: The domain of the function given below is the set of all real numbers greater than \(\frac{8}{3}\).
\(F(x)=\left(\frac{8}{3}\right)^{x}\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 3a of 15 ( 2 Graphs of Exponential Functions 91802 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: The range of the function given below is the set of all positive real numbers greater than 6.
\(F(x)=6+2^{x}\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline\(*\) A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 3b of 15 ( 2 Graphs of Exponential Functions 298220)

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
2

True-False

The range of the function given below is the set of all positive real numbers greater than 7 .
\(F(x)=7+3^{x}\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline\(*\) A. & True & \\
\hline \hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 3c of 15 ( 2 Graphs of Exponential Functions 298221)
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
The range of the function given below is the set of all positive real numbers greater than 5 .
\(F(x)=5+4^{x}\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 4a of 15 (2 Graphs of Exponential Functions 91803)
Maximum Attempts: 1
Question Type: True-False
Maximum Score:
Question: 2

The range of the function given below is the set of all positive real numbers less than 8.
\(F(x)=8-3^{x}\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

\section*{Question 4b of 15 ( 2 Graphs of Exponential Functions 298222 )}

Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
The range of the function given below is the set of all positive real numbers less than 4.
\(F(x)=4-4^{x}\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 4c of 15 ( 2 Graphs of Exponential Functions 298223)
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
The range of the function given below is the set of all positive real numbers less than 7 .
\(F(x)=7-3^{x}\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 5a of 15 ( 2 Graphs of Exponential Functions 91804 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which facts are true for the graph of the function below? Check all that apply.
\[
F(x)=\left(\frac{3}{5}\right)^{x}
\]

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline *. & The range of \(F(x)\) is \(y>0\). \\
\hline B. & The domain of \(F(x)\) is \(x>0\). \\
\hline \hline\(*\) C. & The \(y\)-intercept is \((0,1)\). \\
\hline D. & It is increasing. \\
\hline *E. & It is decreasing. \\
\hline \hline F. & The \(x\)-intercept is \((1,0)\). \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \\
& \begin{tabular}{l} 
• The range of \(\mathrm{F}(\mathrm{x})\) is \(\mathrm{y}>0\). \\
\\
\\
\\
\\
\\
\end{tabular}\(\quad\) It is decreasing.
\end{tabular}

Question 5b of 15 ( 2 Graphs of Exponential Functions 298224 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which facts are true for the graph of the function below? Check all that apply.
\(f(x)=\left(\frac{3}{7}\right)^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *. & The range of \(F(x)\) is \(y>0\). \\
\hline B. & The domain of \(F(x)\) is \(x>0\). \\
\hline
\end{tabular}

The \(y\)-intercept is \((0,1)\).
D. \(\mid\) It is increasing.

It is decreasing.
F. The \(x\)-intercept is \((1,0)\).
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \\
& \begin{tabular}{c}
\(\bullet\) \\
\(\bullet\) \\
\(\bullet\) \\
\\
\\
\end{tabular} \\
\hline
\end{tabular}

Question 5c of 15 (2 Graphs of Exponential Functions 298225 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which facts are true for the graph of the function below? Check all that apply.
\(f(x)=\left(\frac{2}{5}\right)^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline *. & The range of \(F(x)\) is \(y>0\). \\
\hline B. & The domain of \(F(x)\) is \(x>0\). \\
\hline \hline *. & The \(y\)-intercept is \((0,1)\). \\
\hline D. & It is increasing. \\
\hline \hline *E. & It is decreasing. \\
\hline \hline F. & The \(x\)-intercept is \((1,0)\). \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \\
& \begin{tabular}{l}
\(\bullet\) \\
\(\bullet\) \\
\(\bullet\) \\
\(\bullet\) \\
\\
\end{tabular} \\
\hline
\end{tabular}

Question 6a of 15 (2 Graphs of Exponential Functions 91805 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which facts are true for the graph of the function below? Check all that apply.
\(F(x)=3 \quad 4^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & It is decreasing. \\
\hline \hline B. & The range of \(\mathrm{F}(\mathrm{x})\) is \(\mathrm{y}>4\). \\
\hline \hline\(*\) C. & \begin{tabular}{l} 
The domain of \(\mathrm{F}(\mathrm{x})\) is all real \\
numbers.
\end{tabular} \\
\hline \hline *D. & The y-intercept is \((0,3)\). \\
\hline E. & The y-intercept is \((0,4)\). \\
\hline \hline *F. & It is increasing. \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|c|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{c} 
The correct answers are: \\
\\
\\
\\
\(\bullet \quad\) The domain of \(F(x)\) is all real numbers. \\
\(\bullet\) \\
\hline \hline
\end{tabular} \\
\hline
\end{tabular}
\(\square\)

\section*{Question 6b of 15 ( 2 Graphs of Exponential Functions 298226 )}

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which facts are true for the graph of the function below? Check all that apply.
\(F(x)=2 \quad 5^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & It is decreasing. \\
\hline \hline B. & The range of \(F(x)\) is \(y>5\). \\
\hline \hline\(*\) C. & \begin{tabular}{l} 
The domain of \(F(x)\) is all real \\
numbers.
\end{tabular} \\
\hline *D. & The \(y\)-intercept is \((0,2)\). \\
\hline \hline E. & The \(y\)-intercept is \((0,5)\). \\
\hline \hline *F. & It is increasing. \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|c|}
\hline Global I ncorrect Feedback \\
\hline \begin{tabular}{l}
The correct answers are: \\
- The domain of \(F(x)\) is all real numbers. \\
- The \(y\)-intercept is \((0,2)\). \\
- It is increasing.
\end{tabular} \\
\hline
\end{tabular}

Question 6c of 15 (2 Graphs of Exponential Functions 298227)

Question Type: Multiple Response
Maximum Score: 2

Question: Which facts are true for the graph of the function below? Check all that apply.
\[
\mathrm{F}(\mathrm{x})=4
\]

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & It is decreasing. \\
\hline \hline B. & The range of \(\mathrm{F}(\mathrm{x})\) is \(\mathrm{y}>5\). \\
\hline \hline\(*\) C. & \begin{tabular}{l} 
The domain of \(\mathrm{F}(\mathrm{x})\) is all real \\
numbers.
\end{tabular} \\
\hline \hline *. & The y-intercept is \((0,4)\). \\
\hline E. & The y-intercept is \((0,5)\). \\
\hline \hline *F. & It is increasing. \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \\
& \begin{tabular}{l} 
• The domain of \(F(x)\) is all real numbers. \\
\(\bullet\) \\
\(\bullet\) \\
\\
\end{tabular} \\
& \\
\hline
\end{tabular}

Question 7a of 15 ( 2 Graphs of Exponential Functions 91806 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: The graph below could be the graph of which exponential function?
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(F(x)=3 \cdot(-1.4)^{x}\) & \\
\hline \hline B. & \(F(x)=3^{x}\) & \\
\hline \hline *. & \(F(x)=3 \cdot(1.4)^{x}\) & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline D. & \(F(x)=3 \cdot(0.4)^{x}\) \\
\hline
\end{tabular}
Global I ncorrect Feedback
The correct answer is: \(\mathrm{F}(\mathrm{x})=3 \bullet(1.4)^{\mathrm{x}}\).

Question 7b of 15 ( 2 Graphs of Exponential Functions 298228 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
The graph below could be the graph of which exponential function?
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & \(\mathrm{F}(\mathrm{x})=3 \cdot(1.7)^{x}\) & \\
\hline B. & \(\mathrm{F}(\mathrm{x})=3^{\mathrm{x}}\) & \\
\hline \hline C. & \(\mathrm{F}(\mathrm{x})=3 \cdot(-1.7)^{x}\) & \\
\hline \hline D. & \(\mathrm{F}(\mathrm{x})=3 \cdot(0.7)^{x}\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(F(x)=3 *(1.7)^{x}\).

Question 7c of 15 ( 2 Graphs of Exponential Functions 298229 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
The graph below could be the graph of which exponential function?
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(\mathrm{F}(\mathrm{x})=3 \bullet(-1.2)^{\mathrm{x}}\) & \\
\hline \hline B. & \(\mathrm{F}(\mathrm{x})=3^{\mathrm{x}}\) & \\
\hline \hline C. & \(\mathrm{F}(\mathrm{x})=3 \bullet(0.2)^{\mathrm{x}}\) & \\
\hline *D. & \(\mathrm{F}(\mathrm{x})=3 \bullet(1.2)^{\mathrm{x}}\) & \\
\hline
\end{tabular}
\begin{tabular}{|l|}
\hline Global I ncorrect Feedback \\
\hline The correct answer is: \(\mathrm{F}(\mathrm{x})=3 \cdot(1.2)^{x}\). \\
\hline
\end{tabular}

Question 8a of 15 ( 2 Graphs of Exponential Functions 91807 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: The graph below could be the graph of which exponential function?
\begin{tabular}{|l||l||l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(F(x)=2 \bullet(2)^{x}\) & \\
\hline \hline B. & \(F(x)=2^{x}\) & \\
\hline *C. & \(F(x)=2 \cdot(0.5)^{x}\) & \\
\hline D. & \(F(x)=2 \bullet(1.1)^{x}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(F(x)=2 \cdot(0.5)^{x}\).

Question 8b of 15 ( 2 Graphs of Exponential Functions 298230 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: The graph below could be the graph of which exponential function?
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(F(x)=2 \cdot(0.7)^{x}\) & \\
\hline \hline B. & \(F(x)=2^{x}\) & \\
\hline \hline C. & \(F(x)=2 \cdot(5)^{x}\) & \\
\hline \hline D. & \(F(x)=2 \cdot(1.4)^{x}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(F(x)=2 \cdot(0.7)^{x}\).

\section*{Question 8c of 15 ( 2 Graphs of Exponential Functions 298231 )}

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & \(F(x)=2 \cdot(0.5)^{x}\) & \\
\hline B. & \(F(x)=2^{x}\) & \\
\hline \hline C. & \(F(x)=2 \cdot(7)^{x}\) & \\
\hline \hline D. & \(F(x)=2 \cdot(1.6)^{x}\) & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|}
\hline Global I ncorrect Feedback \\
\hline \hline The correct answer is: \(F(x)=2 \cdot(0.5)^{x}\). \\
\hline
\end{tabular}

Question 9a of 15 ( 2 Graphs of Exponential Functions 119644)
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
The range of \(F(x)=5 * 2^{x}\) is all positive real numbers.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline B. & False & \\
\hline \hline
\end{tabular}

\section*{Global I ncorrect Feedback}

The correct answer is: True.

Question 9b of \(\mathbf{1 5}\) (2 Graphs of Exponential Functions 327535 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

True-False
2
The range of \(F(x)=6 * 3^{x}\) is all positive real numbers.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: \(\quad\) The range of \(F(x)=7 \bullet 4^{x}\) is all positive real numbers.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline\(*\) A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 10a of 15 ( 2 Graphs of Exponential Functions 119646 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
The domain of \(F(x)=\left(\frac{3}{4}\right)^{x}\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 10b of 15 ( 2 Graphs of Exponential Functions 327694 )

\section*{Maximum Attempts:}

Question Type:
Maximum Score:
Question:

1
True-False
2

The domain of
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 10c of 15 ( 2 Graphs of Exponential Functions 298235 )
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:

True-False
2
The domain of \(F(x)=\left(\frac{2}{5}\right)^{x}\) is all negative numbers.
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 11a of 15 ( 2 Graphs of Exponential Functions 119649 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad(0, a), y=a, 0, a\)
Question: In general, the \(y\)-intercept of the function \(F(x)=a \cdot b^{x}\) is the point
_-_-_•
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((0, \mathrm{a})\). \\
\hline
\end{tabular}

Question 11b of 15 ( 2 Graphs of Exponential Functions 298236 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad(0, a), y=a, 0, a\)
Question:
In general, the \(y\)-intercept of the function \(F(x)=a \cdot b^{x}\) is the point
\(\qquad\) -.
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((0, \mathrm{a})\). \\
\hline \hline
\end{tabular}

Question 11c of 15 ( 2 Graphs of Exponential Functions 298237)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer: \(\quad(0, a), y=a, 0, a\)
Question: In general, the \(y\)-intercept of the function \(F(x)=a \cdot b^{x}\) is the point
-----
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((0, \mathrm{a})\). \\
\hline
\end{tabular}

Question 12a of 15 ( 2 Graphs of Exponential Functions 119652 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: base
Question: The value of the ___ determines whether the graph of an exponential function increases or decreases from left to right.
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: base. \\
\hline
\end{tabular}

Question 12b of 15 ( 2 Graphs of Exponential Functions 298238)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: base
Question: The value of the ____ determines whether the graph of an exponential function increases or decreases from left to right.
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: base. \\
\hline
\end{tabular}

Question 12c of 15 ( 2 Graphs of Exponential Functions 298239)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: base
Question: The value of the ___ determines whether the graph of an exponential function increases or decreases from left to right.
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: base. \\
\hline
\end{tabular}

Question 13a of 15 (2 Graphs of Exponential Functions 119655)

Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: The base of an exponential function can be a negative number.
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

> Global I ncorrect Feedback

The correct answer is: False.

Question 13b of 15 ( 2 Graphs of Exponential Functions 298240 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score:
Question:
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline\(*\) A. & True & \\
\hline B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 13c of 15 ( 2 Graphs of Exponential Functions 298241)
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:

True-False
2
The base of an exponential function cannot be a negative number.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *. & True & \\
\hline B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 14a of 15 ( 2 Graphs of Exponential Functions 119656)

Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:

Text Fill In Blank
2
false
x
A feature that is common to all exponential functions of the form \(F(x)=\) \(\mathrm{b}^{\mathrm{x}}\) is that they have a common horizontal asymptote at the \(\qquad\) -axis.
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: x. \\
\hline
\end{tabular}

Question 14b of 15 ( 2 Graphs of Exponential Functions 298242 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive:
Correct Answer:
Question:
false
asymptote, asymtote, assymptote, assymtote, asimtote
A feature that is common to all exponential functions of the form \(F(x)=\) \(b^{\mathrm{x}}\) is that they have a common horizontal \(\qquad\) at the \(x\)-axis.
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: asymptote. \\
\hline
\end{tabular}

Question 14c of 15 ( 2 Graphs of Exponential Functions 298243 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: x
Question: \(\quad\) A feature that is common to all exponential functions of the form \(F(x)=\)
\(\mathrm{b}^{\mathrm{x}}\) is that they have a common horizontal asymptote at the \(\qquad\) -
axis.

\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: x. \\
\hline
\end{tabular}

Question 15a of 15 ( 2 Graphs of Exponential Functions 119658 )
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
True-False
2
For all values of \(a\) and \(b\) that make \(F(x)=a \cdot b^{x}\) a valid exponential function, the graph always has a horizontal asymptote at \(y=0\).
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline \hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 15 b of 15 ( 2 Graphs of Exponential Functions 298244 )

\section*{Maximum Attempts: \\ 1}

Question Type:
Maximum Score:
Question:
True-False
2
For all values of \(a\) and \(b\) that make \(F(x)=a \cdot b^{x} a\) valid exponential function, the graph always has a horizontal asymptote at \(\mathrm{y}=0\).
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline \hline B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 15c of 15 ( 2 Graphs of Exponential Functions 298245 )

Question Type:
Maximum Score:
Question:

True-False
2
For all values of \(a\) and \(b\) that make \(F(x)=a \cdot b^{x} a\) valid exponential function, the graph always has a horizontal asymptote at \(\mathrm{y}=0\).
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *. & True & \\
\hline \hline B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 1a of 15 ( 3 Logarithmic Functions 91845 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which logarithmic equation is equivalent to the exponential equation below?
\(4^{c}=256\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & \(\log _{4} 256=\mathrm{c}\) & \\
\hline \hline B. & \(\log _{256} \mathrm{C}=4\) & \\
\hline \hline C. & \(\log _{\mathrm{c}} 256=4\) & \\
\hline \hline D. & \(\log _{4} \mathrm{C}=256\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\log _{4} 256=c\).

Question 1 b of 15 ( 3 Logarithmic Functions 299275 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
Which logarithmic equation is equivalent to the exponential equation below?
\(5^{c}=250\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(\log _{5} \mathrm{C}=250\) & \\
\hline \hline B. & \(\log _{250} \mathrm{C}=5\) & \\
\hline \hline C. & \(\log _{\mathrm{c}} 250=5\) & \\
\hline \hline *D. & \(\log _{5} 250=\mathrm{c}\) & \\
\hline
\end{tabular}
\begin{tabular}{|l|}
\hline Global I ncorrect Feedback \\
\hline \hline The correct answer is: \(\log _{5} 250=\mathrm{c}\). \\
\hline
\end{tabular}

Question 1c of 15 ( 3 Logarithmic Functions 299277)
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Maximum Attempts: Question Type:}} & \multicolumn{3}{|l|}{1} \\
\hline & & \multicolumn{3}{|l|}{Multiple Choice} \\
\hline \multicolumn{2}{|l|}{Maximum Score:} & \multicolumn{3}{|l|}{2} \\
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{Question:}} & \multicolumn{3}{|l|}{Which logarithmic equation is equivalent to the exponential equation below?} \\
\hline & & \multicolumn{3}{|l|}{\(5^{c}=125\)} \\
\hline & Choice & & & Feedback \\
\hline A. & \(\log _{5} \mathrm{C}=125\) & & & \\
\hline B. & \(\log _{125} \mathrm{C}=5\) & & & \\
\hline C. & \(\log _{c} 125=5\) & & & \\
\hline * D & \(\log _{5} 125=\mathrm{c}\) & & & \\
\hline & & & Glob & ct Feedback \\
\hline & & & The & er is: \(\log _{5} 125=c\). \\
\hline
\end{tabular}

Question 2a of 15 ( 3 Logarithmic Functions 91846 )

Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Choice
2
Which logarithmic equation is equivalent to the exponential equation below?
\(2^{c}=8\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\log _{2} \mathrm{C}=8\) & \\
\hline \hline\(*\) B. & \(\log _{2} 8=\mathrm{c}\) & \\
\hline C. & \(\log _{8} \mathrm{C}=2\) & \\
\hline \hline D. & \(\log _{\mathrm{c}} 8=2\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\log _{2} 8=c\).

Question 2 b of 15 ( 3 Logarithmic Functions 299278 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which logarithmic equation is equivalent to the exponential equation below?
\(3^{c}=27\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\log _{3} \mathrm{C}=27\) & \\
\hline \hline B. & \(\log _{\mathrm{c}} 27=3\) & \\
\hline \hline C. & \(\log _{27} \mathrm{C}=3\) & \\
\hline \hline *D. & \(\log _{3} 27=\mathrm{C}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\log _{3} 27=c\).

Question 2c of 15 ( 3 Logarithmic Functions 299279 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which logarithmic equation is equivalent to the exponential equation below?
\(4^{c}=64\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\log _{4} 64=\mathrm{c}\) & \\
\hline \hline B. & \(\log _{4} \mathrm{C}=64\) & \\
\hline \hline C. & \(\log _{64} \mathrm{C}=4\) & \\
\hline \hline D. & \(\log _{\mathrm{c}} 64=4\) & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|}
\hline Global I ncorrect Feedback \\
\hline \hline The correct answer is: \(\log _{4} 64=\mathrm{c}\). \\
\hline
\end{tabular}

Question 3a of 15 ( 3 Logarithmic Functions 91847 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
Which logarithmic equation is equivalent to the exponential equation below?
\(e^{a}=55\)
\begin{tabular}{|l||l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & In \(\mathrm{a}=55\) & \\
\hline \hline B. & \(\log _{\mathrm{a}} 55=4\) & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l||l|}
\hline\(*\) C. & In \(55=\mathrm{a}\) & \\
\hline \hline D. & \(\log _{55} 4=\mathrm{e}\) & \\
\hline & & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\ln 55=\mathrm{a}\). \\
\hline
\end{tabular}

Question 3b of 15 ( 3 Logarithmic Functions 299280 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
Which logarithmic equation is equivalent to the exponential equation below?
\[
e^{a}=60
\]
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & In \(\mathrm{a}=60\) & \\
\hline \hline *B. & In \(60=\mathrm{a}\) & \\
\hline \hline C. & \(\log _{\mathrm{a}} 60=4\) & \\
\hline \hline D. & \(\log _{60} 4=\mathrm{e}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: In \(60=a\).

Question 3c of 15 ( 3 Logarithmic Functions 299281 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
Which logarithmic equation is equivalent to the exponential equation below?
\(e^{a}=35\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\ln \mathrm{a}=35\) & \\
\hline \hline *B. & \(\ln 35=\mathrm{a}\) & \\
\hline \hline C. & \(\log _{\mathrm{a}} 35=2.5\) & \\
\hline \hline D. & \(\log _{35} 2=\mathrm{e}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\ln 35=a\).

Question 4a of 15 (3 Logarithmic Functions 91848)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which logarithmic equation is equivalent to the exponential equation below?
\(e^{a}=38.47\)
\begin{tabular}{|l|l||l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(\log _{38.47} 3.65=\mathrm{e}\) & \\
\hline \hline B. & In \(\mathrm{a}=38.47\) & \\
\hline \hline C. & \(\log _{\mathrm{a}} 38.47=3.65\) & \\
\hline \hline *D. & In \(38.47=\mathrm{a}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\ln 38.47=\mathrm{a}\).

Question 4b of 15 ( 3 Logarithmic Functions 299282 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which logarithmic equation is equivalent to the exponential equation below?
\(e^{a}=47.38\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(\log _{47.38} 3.65=\mathrm{e}\) & \\
\hline \hline *B. & \(\ln 47.38=\mathrm{a}\) & \\
\hline \hline C. & \(\log _{\mathrm{a}} 47.38=3.65\) & \\
\hline \hline D. & \(\ln \mathrm{a}=47.38\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\ln 47.38=\mathrm{a}\).

Question 4c of 15 ( 3 Logarithmic Functions 299283)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2

Question: Which logarithmic equation is equivalent to the exponential equation below?
\(e^{a}=28.37\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & In \(28.37=\mathrm{a}\) & \\
\hline B. & In \(\mathrm{a}=28.37\) & \\
\hline \hline C. & \(\log _{\mathrm{a}} 28.37=3.65\) & \\
\hline \hline D. & \(\log _{28.37} 3.65=\mathrm{e}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\ln 28.37=\mathrm{a}\).

Question 5a of 15 (3 Logarithmic Functions 91849)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which exponential equation is equivalent to the logarithmic equation below?
\(c=\ln 3\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\mathrm{e}^{3}=\mathrm{c}\) & \\
\hline \hline *B. & \(\mathrm{e}^{c}=3\) & \\
\hline \hline C. & \(3^{c}=\mathrm{e}\) & \\
\hline \hline D. & \(\mathrm{c}^{3}=\mathrm{e}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\mathrm{e}^{c}=3\).

Question 5b of 15 ( 3 Logarithmic Functions 299284 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
Which exponential equation is equivalent to the logarithmic equation below?
\(\mathrm{C}=\ln 2\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(\mathrm{e}^{2}=\mathrm{c}\) & \\
\hline
\end{tabular}
\begin{tabular}{|l|l||l|}
\hline B. & \(\mathrm{c}^{2}=\mathrm{e}\) & \\
\hline \hline C. & \(2^{\mathrm{c}}=\mathrm{e}\) & \\
\hline \hline *. & \(\mathrm{e}^{\mathrm{c}=2}\) & \\
\hline
\end{tabular}
\begin{tabular}{|l|}
\hline Global I ncorrect Feedback \\
\hline \hline The correct answer is: \(\mathrm{e}^{\mathrm{c}}=2\). \\
\hline
\end{tabular}

Question 5c of 15 ( 3 Logarithmic Functions 299286 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2

Question:
Which exponential equation is equivalent to the logarithmic equation below?
\(c=\ln 4\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(\mathrm{e}^{4}=\mathrm{c}\) & \\
\hline \hline B. & \(\mathrm{c}^{4}=\mathrm{e}\) & \\
\hline \hline C. & \(4^{\mathrm{c}}=\mathrm{e}\) & \\
\hline \hline *. & \(\mathrm{e}^{\mathrm{c}}=4\) & \\
\hline
\end{tabular}

\section*{Global I ncorrect Feedback}

The correct answer is: \(\mathrm{e}^{\mathrm{c}}=4\).

Question 6a of 15 ( 3 Logarithmic Functions 91850 )

\section*{Maximum Attempts: 1}

Question Type: Multiple Choice
Maximum Score: 2
Question: Which logarithmic equation is equivalent to the exponential equation below?
\(70.81=e^{a}\)
\begin{tabular}{|l|l||l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\log _{\mathrm{a}} 70.81=4.26\) & \\
\hline \hline B. & In \(\mathrm{a}=70.81\) & \\
\hline \hline *. & In \(70.81=\mathrm{a}\) & \\
\hline D. & \(\log _{70.81} 4.26=\mathrm{e}\) & \\
\hline
\end{tabular}

Question 6b of 15 ( 3 Logarithmic Functions 299287 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
Which logarithmic equation is equivalent to the exponential equation below?
\(87.18=e^{a}\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *. & In \(87.18=\mathrm{a}\) & \\
\hline \hline B. & \(\ln \mathrm{a}=87.18\) & \\
\hline \hline C. & \(\log _{\mathrm{a}} 87.18=3.45\) & \\
\hline \hline D. & \(\log _{87.18} 3.45=\mathrm{e}\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\ln 87.18=\mathrm{a}\).

Question 6c of 15 ( 3 Logarithmic Functions 299288)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which logarithmic equation is equivalent to the exponential equation below?
\(67.21=e^{a}\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(\log _{\mathrm{a}} 67.21=2.43\) & \\
\hline \hline B. & In \(\mathrm{a}=67.21\) & \\
\hline \hline C. & \(\log _{67.21} 2.43=\mathrm{e}\) & \\
\hline \hline *D. & In \(67.21=\mathrm{a}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\ln 67.21=\mathrm{a}\).

\section*{Question 7a of 15 ( 3 Logarithmic Functions 91851)}

Maximum Attempts: 1
\begin{tabular}{|c|c|}
\hline \multirow[t]{3}{*}{\begin{tabular}{l}
Question Type: \\
Maximum Score: \\
Question:
\end{tabular}} & Multiple Choice \\
\hline & 2 \\
\hline & Which exponential equation is equivalent to the logarithmic equation below? \\
\hline & \(\log 300=\mathrm{a}\) \\
\hline Choice & Feedback \\
\hline A. \(300{ }^{\text {a }}=10\) & \\
\hline B. \(\mathrm{a}^{10}=300\) & \\
\hline *C. \(10^{\text {a }}=300\) & \\
\hline D. \(300{ }^{10}=\mathrm{a}\) & \\
\hline & Global I ncorrect Feedback \\
\hline & The correct answer is: \(10^{\mathrm{a}}=300\). \\
\hline
\end{tabular}

Question 7 b of 15 ( 3 Logarithmic Functions 299289 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which exponential equation is equivalent to the logarithmic equation below?
\(\log 400=a\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(10^{\mathrm{a}}=400\) & \\
\hline \hline B. & \(\mathrm{a}^{10}=400\) & \\
\hline \hline C. & \(400^{\mathrm{a}}=10\) & \\
\hline \hline D. & \(400^{10}=\mathrm{a}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(10^{\mathrm{a}}=400\).

Question 7c of 15 ( 3 Logarithmic Functions 299290)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
Which exponential equation is equivalent to the logarithmic equation below?
\(\log 200=a\)
\begin{tabular}{|l||l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(200^{\mathrm{a}}=10\) & \\
\hline \hline *B. & \(10^{\mathrm{a}}=200\) & \\
\hline \hline C. & \(\mathrm{a}^{10}=200\) & \\
\hline \hline D. & \(200^{10}=\mathrm{a}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(10^{a}=200\).

Question 8a of 15 ( 3 Logarithmic Functions 91852 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which exponential equation is equivalent to the logarithmic equation below?
\(\log 784=a\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & \(10^{\text {a }}=784\) & \\
\hline B. & \(a^{10}=784\) & \\
\hline \hline C. & \(784^{\mathrm{a}}=10\) & \\
\hline \hline D. & \(784^{10}=\mathrm{a}\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(10^{a}=784\).

Question 8b of 15 ( 3 Logarithmic Functions 299291)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which exponential equation is equivalent to the logarithmic equation below?
\(\log 478=a\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(478^{10}=\mathrm{a}\) & \\
\hline \hline B. & \(a^{10}=478\) & \\
\hline \hline C. & \(478^{a}=10\) & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|}
\hline *D. & \(10^{\mathrm{a}}=478\) & \\
\hline & \begin{tabular}{|l|}
\hline Global I ncorrect Feedback \\
\hline \hline The correct answer is: \(10^{\mathrm{a}}=478\). \\
\hline
\end{tabular} \\
\hline
\end{tabular}

Question 8c of 15 ( 3 Logarithmic Functions 299292 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
Which exponential equation is equivalent to the logarithmic equation below?
\(\log 987=a\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(a^{10}=987\) & \\
\hline *B. & \(10^{\mathrm{a}}=987\) & \\
\hline C. & \(987^{\mathrm{a}}=10\) & \\
\hline \hline D. & \(987^{10}=\mathrm{a}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(10^{\mathrm{a}}=987\).

Question 9a of 15 ( 3 Logarithmic Functions 119660)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: common
Question:
The base 10 logarithm is called the \(\qquad\) logarithm and is often written as \(\log \mathrm{x}\) instead of \(\log _{10} \mathrm{x}\).
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: common. \\
\hline \hline
\end{tabular}

Question 9b of 15 ( 3 Logarithmic Functions 299293 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: common
Question:
The base 10 logarithm is called the \(\qquad\) logarithm and is often written as \(\log x\) instead of \(\log _{10} x\).
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: common. \\
\hline
\end{tabular}

Question 9c of 15 ( 3 Logarithmic Functions 299294 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2

Is Case Sensitive: false
Correct Answer:
common
Question:
The base 10 logarithm is called the \(\qquad\) logarithm and is often written as \(\log x\) instead of \(\log _{10} x\).
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\(\square\)
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: common. \\
\hline
\end{tabular}

Question 10a of 15 ( 3 Logarithmic Functions 119662 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false

Correct Answer:
Question:
\(e^{\wedge} y=x, e^{\wedge} y=x, e^{\wedge} y=x\)
Convert the following logarithmic equation to the equivalent exponential equation. Use the caret ( \(\wedge\) ) to enter exponents.
\(y=\ln x\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\mathrm{e}^{\mathrm{y}}=\mathrm{x}\). \\
\hline
\end{tabular}

Question 10b of 15 ( 3 Logarithmic Functions 299295 )
Maximum Attempts: 1
Question Type:
Text Fill In Blank
Maximum Score:
2
Is Case Sensitive:
Correct Answer:
Question:
false
\(e^{\wedge} y=x, e^{\wedge} y=x, e^{\wedge} y=x\)
Convert the following logarithmic equation to the equivalent exponential
equation. Use the caret ( \(\wedge\) ) to enter exponents.
\(y=\ln x\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\mathrm{e}^{\mathrm{y}}=\mathrm{x}\). \\
\hline
\end{tabular}

Question 10c of 15 ( 3 Logarithmic Functions 299296)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer:
Question:
\(e^{\wedge} y=x, e^{\wedge} y=x, e^{\wedge} y=x\)
Convert the following logarithmic equation to the equivalent exponential equation. Use the caret ( \(\wedge\) ) to enter exponents.
\(y=\ln x\)

\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\mathrm{e}^{\mathrm{y}}=\mathrm{x}\). \\
\hline
\end{tabular}

Question 11a of 15 (1 Logarithmic Functions 119665 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: A logarithmic function is the inverse of an exponential function.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline \hline B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 11b of 15 (1 Logarithmic Functions 299297)
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2

Question:
A logarithmic function is the same as an exponential function.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 11c of 15 (1 Logarithmic Functions 299298)
Maximum Attempts: 1
Question Type:
True-False

Maximum Score:
Question:
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline\(*\) A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 12a of 15 (1 Logarithmic Functions 119669 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive:
false
Correct Answer: input
Question: A logarithmic function takes the exponential function's output and returns the exponential function's \(\qquad\) _.
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: input. \\
\hline
\end{tabular}

Question 12b of 15 (1 Logarithmic Functions 299299 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: output
Question: A logarithmic function takes the exponential function's \(\qquad\) and returns the exponential function's input.
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: output. \\
\hline
\end{tabular}

Question 12c of 15 (1 Logarithmic Functions 299301)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: logarithmic, logarhythmic, logerithmic, logarithm
Question:
A function takes the exponential function's output and returns the exponential function's input.
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: logarithmic. \\
\hline
\end{tabular}

Question 13a of 15 (3 Logarithmic Functions 119671)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad 2 \wedge 3=8,8=2 \wedge 3\)
Question:
Convert the following logarithmic equation to an exponential equation
 exponents.
\(\log _{2} 8=3\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(2^{3}=8\). \\
\hline
\end{tabular}

\section*{Question 13b of 15 (3 Logarithmic Functions 299302 )}

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad 3^{\wedge} 3=27,27=3^{\wedge} 3\)
Question:
Convert the following logarithmic equation to an exponential equation
using the relationship \(\log _{\mathrm{b}} \mathrm{a}=\mathrm{c}\) exponents.
\(\log _{3} 27=3\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(3^{3}=27\). \\
\hline
\end{tabular}

Question 13c of 15 ( 3 Logarithmic Functions 299303 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer:
\(3^{\wedge} 2=9,9=3^{\wedge} 2\)
Question:
Convert the following logarithmic equation to an exponential equation
 exponents.
\(\log _{3} 9=2\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(3^{2}=9\). \\
\hline
\end{tabular}

Question 14a of 15 ( 3 Logarithmic Functions 119672 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad 10^{\wedge} x=y, y=10^{\wedge} x\)
Question: Convert the following logarithmic equation to an exponential equation
using the relationship \(\log _{\mathrm{b}} \mathrm{a}=\mathrm{c}\) exponents.
\(\log _{10} y=x\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(10^{\times}=\mathrm{y}\). \\
\hline
\end{tabular}

Question 14b of 15 ( 3 Logarithmic Functions 299304 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad 12^{\wedge} x=y, y=12^{\wedge} x\)
Question: Convert the following logarithmic equation to an exponential equation
 exponents.
\(\log _{12} y=x\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(12^{\mathrm{x}}=\mathrm{y}\). \\
\hline
\end{tabular}

Question 14c of 15 (3 Logarithmic Functions 299305 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad 11^{\wedge} x=y, y=11^{\wedge} x\)
Question: Convert the following logarithmic equation to an exponential equation
using the relationship \(\log _{\mathrm{b}} \mathrm{a}=\mathrm{c}\) exponents.
\(\log _{11} y=x\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(11^{\times}=\mathrm{y}\). \\
\hline
\end{tabular}

Question 15a of 15 ( 3 Logarithmic Functions 119674)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer:
Question:
\(3^{\wedge} n=14,14=3^{\wedge} n\)
Convert the following logarithmic equation to an exponential equation
 exponents.
\(\log _{3} 14=\mathrm{n}\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(3^{n}=14\). \\
\hline
\end{tabular}

\section*{Question 15b of 15 (3 Logarithmic Functions 299306 )}

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad 4^{\wedge} \mathrm{n}=12,12=4^{\wedge} \mathrm{n}\)
Question: Convert the following logarithmic equation to an exponential equation
 exponents.
\(\log _{4} 12=\mathrm{n}\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(4^{\mathrm{n}}=12\). \\
\hline
\end{tabular}

Question 15c of 15 ( 3 Logarithmic Functions 299307 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: \(\quad 2^{\wedge} n=13,13=2^{\wedge} n\)
Question:
Convert the following logarithmic equation to an exponential equation
 exponents.
\(\log _{2} 13=\mathrm{n}\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(2^{n}=13\). \\
\hline
\end{tabular}

\section*{Quiz: Graphs of Logarithmic Functions}

Question 1a of 15 ( 2 Graphing Logarithmic Functions 91816)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which answer represents the domain of the logarithmic function given below?
\(F(x)=\log _{8} x\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(x=0\) & \\
\hline \hline B. & \(x>0\) & \\
\hline C. & \(x<0\) & \\
\hline \hline D. & all real numbers & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(x>0\).

Question 1b of 15 ( 2 Graphing Logarithmic Functions 299347)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which answer represents the domain of the logarithmic function given below?
\(F(x)=\log _{9} x\)
\begin{tabular}{|l||l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(x=\mathbf{0}\) & \\
\hline \hline B. & \(x<0\) & \\
\hline \hline *. & \(x>0\) & \\
\hline D. & all real numbers & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(x>0\).

Question 1c of 15 ( 2 Graphing Logarithmic Functions 299348 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which answer represents the domain of the logarithmic function given below?
\(F(x)=\log _{7} x\)
\begin{tabular}{|l||l||l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & Pren & \\
\hline \hline B. & \(x<0\) & \\
\hline \hline *C. & \(x>0\) & \\
\hline D. & all real numbers & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(x>0\).

Question 2a of 15 (2 Graphing Logarithmic Functions 91817)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: Which answer represents the domain of the logarithmic function given below?
\(\mathrm{F}(\mathrm{x})=3+\log _{0.5} \mathrm{x}\)
\begin{tabular}{|c|c|c|}
\hline & Choice & Feedback \\
\hline A. &  & \\
\hline B. & \(x<0\) & \\
\hline *. & \(x>0\) & \\
\hline D. & all real numbers & \\
\hline
\end{tabular}

> Global I ncorrect Feedback

The correct answer is: \(\mathrm{x}>0\).

\section*{Question 2 b of 15 ( 2 Graphing Logarithmic Functions 299349 )}

Question Type:
Maximum Score:
Question:

Multiple Choice
2
Which answer represents the domain of the logarithmic function given below?
\(F(x)=2+\log _{0.6} x\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *. & \(x>0\) & \\
\hline \hline B. & \(x<0\) & \\
\hline \hline C. & \(x\)-and & \\
\hline \hline D. & all real numbers & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|}
\hline Global I ncorrect Feedback \\
\hline \hline The correct answer is: \(\mathrm{x}>0\). \\
\hline
\end{tabular}

Question 2c of 15 ( 2 Graphing Logarithmic Functions 299350 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2

Question:
Which answer represents the domain of the logarithmic function given below?
\(F(x)=5+\log _{0.3} x\)
\begin{tabular}{|l||l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & nen & \\
\hline \hline B. & \(x<0\) & \\
\hline \hline C. & \(x>0\) & \\
\hline D. & all real numbers & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(x>0\).

Question 3a of 15 ( 2 Graphing Logarithmic Functions 91818)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which facts are true for the graph of the function below? Check all that apply.
\[
F(x)=\log _{7} x
\]

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & The \(x\)-intercept is \((1,0)\). \\
\hline \hline B. & The range is \(y>0\). \\
\hline \hline C. & It is decreasing. \\
\hline *D. & It is increasing. \\
\hline E. & The \(y\)-intercept is \((0,7)\). \\
\hline \hline F. & The domain is \(x>7\). \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \\
& \begin{tabular}{c}
\(\bullet\) \\
\(\bullet \quad\) It is increasing.
\end{tabular} \\
\hline
\end{tabular}

Question 3b of 15 ( 2 Graphing Logarithmic Functions 299351 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which facts are true for the graph of the function below? Check all that apply.
\(F(x)=\log _{6} x\)

\section*{Correct Answers:}
\begin{tabular}{|l||l|}
\hline & Choice \\
\hline \hline A. & It is decreasing. \\
\hline \hline B. & The range is \(\mathrm{y}>0\). \\
\hline \hline *C. & The x -intercept is \((1,0)\). \\
\hline D. & The \(y\)-intercept is \((0,6)\). \\
\hline \hline *E. & It is increasing. \\
\hline \hline
\end{tabular}
F. The domain is \(x>6\).
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \\
& \begin{tabular}{l}
\(\bullet \quad\) The \(x\)-intercept is \((1,0)\). \\
\(\bullet \quad\) It is increasing.
\end{tabular} \\
\hline
\end{tabular}

Question 3c of 15 ( 2 Graphing Logarithmic Functions 299352 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which facts are true for the graph of the function below? Check all that apply.
\[
F(x)=\log _{8} x
\]

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline *A. & The \(x\)-intercept is \((1,0)\). \\
\hline B. & The range is \(y>0\). \\
\hline \hline C. & It is decreasing. \\
\hline *D. & It is increasing. \\
\hline \hline E. & The \(y\)-intercept is \((0,8)\). \\
\hline \hline F. & The domain is \(x>8\). \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \\
\hline \hline
\end{tabular}
- The \(x\)-intercept is \((1,0)\).
- It is increasing.

Question 4a of 15 ( 3 Graphing Logarithmic Functions 91819 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score:
Question: What is the \(x\)-intercept of the function below?
\(F(x)=\log _{7}(x-2)\)
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \((1,0)\) & \\
\hline \hline B. & \((7,0)\) & \\
\hline \hline *C. & \((3,0)\) & \\
\hline D. & \((-1,0)\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \((3,0)\).

Question 4 b of 15 ( 3 Graphing Logarithmic Functions 299353 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: What is the \(x\)-intercept of the function below?
\(F(x)=\log _{7}(x-3)\)
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \((1,0)\) & \\
\hline \hline *B. & \((4,0)\) & \\
\hline \hline C. & \((7,0)\) & \\
\hline \hline D. & \((-2,0)\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \((4,0)\).

Question 4c of 15 ( 3 Graphing Logarithmic Functions 299354 )

\section*{Maximum Attempts: 1}

Question Type: Multiple Choice
Maximum Score: 2
Question: What is the x -intercept of the function below?
\(F(x)=\log _{7}(x-1)\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & \((2,0)\) & \\
\hline \hline B. & \((7,0)\) & \\
\hline \hline C. & \((1,0)\) & \\
\hline \hline D. & \((0,0)\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \((2,0)\).

Question 5a of 15 ( 2 Graphing Logarithmic Functions 91820)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which facts are true for the graph of the function below? Check all that apply.
\(F(x)=\log _{0.125} x\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & It is increasing. \\
\hline *B. & The range is all real numbers. \\
\hline \hline *. & The domain is \(x>0\). \\
\hline D. & The \(y\)-intercept is \((0,4)\). \\
\hline \hline *E. & The \(x\)-intercept is \((1,0)\). \\
\hline \hline *F. & It is decreasing. \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & The correct answers are: \\
& \begin{tabular}{l} 
- The range is all real numbers. \\
\\
\\
\\
\\
• The domain is \(x>0\). \\
- It is decreasing.
\end{tabular} \\
\hline
\end{tabular}

Question 5b of 15 ( 2 Graphing Logarithmic Functions 299355 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which facts are true for the graph of the function below? Check all that apply.
\(\mathrm{F}(\mathrm{x})=\log _{0.521} \mathrm{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & It is decreasing. \\
\hline \hline B. & The range is all real numbers. \\
\hline \hline *. & The domain is \(x>0\). \\
\hline *D. & The \(x\)-intercept is \((1,0)\). \\
\hline \hline E. & The y-intercept is \((0,4)\). \\
\hline \hline F. & It is increasing. \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|c|}
\hline Global I ncorrect Feedback \\
\hline \begin{tabular}{l}
The correct answers are: \\
- The range is all real numbers. \\
- The domain is \(x>0\). \\
- The \(x\)-intercept is \((1,0)\). \\
- It is decreasing.
\end{tabular} \\
\hline
\end{tabular}

Question 5c of 15 ( 2 Graphing Logarithmic Functions 299356 )

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score:
Question:
2

Which facts are true for the graph of the function below? Check all that apply.
\[
F(x)=\log _{0.725} x
\]

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & The range is all real numbers. \\
\hline B. & The y-intercept is \((0,4)\). \\
\hline \hline *C. & The domain is \(x>0\). \\
\hline *D. & The \(x\)-intercept is \((1,0)\). \\
\hline E. & It is increasing. \\
\hline \hline *F. & It is decreasing. \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \\
& \begin{tabular}{ll}
\(\bullet\) \\
& • \(\quad\) The range is all real numbers. \\
& • \(\quad\) The \(x\)-intercept is \((1,0)\). \\
\(\bullet\) & It is decreasing.
\end{tabular} \\
& \\
\hline
\end{tabular}

Question 6a of 15 ( 2 Graphing Logarithmic Functions 91821 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: What is the \(x\)-intercept of the function below?
\(F(x)=\log _{0.125}(x-2)\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & \((3,0)\) & \\
\hline B. & \((1,0)\) & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|}
\hline C. & \((-1,0)\) & \\
\hline \hline D. & \((0.125,0)\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \((3,0)\).

Question 6b of 15 ( 2 Graphing Logarithmic Functions 299357 )
```

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: What is the x-intercept of the function below?
F(x)= 年0.25 (x-3)

```
\begin{tabular}{|l|l||l|}
\hline & Choice & Feedback \\
\hline \hline A. & \((-2,0)\) & \\
\hline \hline B. & \((1,0)\) & \\
\hline *C. & \((4,0)\) & \\
\hline D. & \((0.25,0)\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \((4,0)\).

Question 6c of 15 ( 2 Graphing Logarithmic Functions 299358 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: What is the \(x\)-intercept of the function below?
\(F(x)=\log _{0.525}(x-1)\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \((0,0)\) & \\
\hline \hline *B. & \((2,0)\) & \\
\hline C. & \((1,0)\) & \\
\hline \hline D. & \((0.525,0)\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \((2,0)\).

Question 7a of 15 ( 2 Graphing Logarithmic Functions 119679 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2

Is Case Sensitive:
Correct Answer:
Question:
false
(1,0), 1,0
The graph of a logarithmic function in the form of \(\mathrm{F}(\mathrm{x})=\log _{\mathrm{b}} \mathrm{x}\) will always have a vertical asymptote at the \(y\)-axis, and an \(x\)-intercept at the point \(\qquad\) _.
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 7 b of 15 ( 2 Graphing Logarithmic Functions 299359)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: (1,0), 1,0
Question: The graph of a logarithmic function in the form of \(F(x)=\log _{b} x\) will always have a vertical asymptote at the \(y\)-axis, and an \(x\)-intercept at the point \(\qquad\)

\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 7c of 15 ( 2 Graphing Logarithmic Functions 299360 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2

Is Case Sensitive:
false
Correct Answer:
\((1,0), 1,0\)
Question: \(\quad\) The graph of a logarithmic function in the form of \(F(x)=\log _{b} x\) will always have a vertical asymptote at the \(y\)-axis, and an \(x\)-intercept at the point \(\qquad\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 8a of 15 ( 2 Graphing Logarithmic Functions 119684)
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: \(\quad\) The domain of \(F(x)=\log _{b} x\) is the set of all positive real numbers.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline\(*\) A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 8b of 15 ( 2 Graphing Logarithmic Functions 299361 )
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 8c of 15 ( 2 Graphing Logarithmic Functions 299362 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: The domain of \(F(x)=\log _{b} x\) is the set of all negative real numbers.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 9a of 15 ( 1 Graphing Logarithmic Functions 119685 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
The range of \(F(x)=\log _{b} x\) is the set of all positive real numbers.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 9b of 15 ( 1 Graphing Logarithmic Functions 299363 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question: \(\quad\) The range of \(F(x)=\log _{b} x\) is the set of all real numbers.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 9c of 15 (1 Graphing Logarithmic Functions 299364 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
2

True-False

The range of \(F(x)=\log _{b} x\) is the set of all negative real numbers.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 10a of 15 ( 1 Graphing Logarithmic Functions 119691 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
2

True-False

The function \(F(x)=\log _{2} x\) is decreasing.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 10b of 15 ( 1 Graphing Logarithmic Functions 299365 )

Maximum Attempts:
Question Type:
Maximum Score:
Question:

True-False
2
The function \(F(x)=\log _{3} x\) is decreasing.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 10c of 15 (1 Graphing Logarithmic Functions 299366 )

Question Type:
Maximum Score:
Question:

True-False
2
The function \(F(x)=\log _{5} x\) is decreasing.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 11a of 15 (1 Graphing Logarithmic Functions 119692)
Maximum Attempts: 1
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:
Text Fill In Blank
2
false
\((1,0), 1,0\)
The \(x\)-intercept of \(F(x)=\log _{2} x\) is \(\qquad\) _.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 11 of 15 (1 Graphing Logarithmic Functions 299367)

Maximum Attempts:
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:

1
Text Fill In Blank
2
false
\((1,0), 1,0\)
The \(x\)-intercept of \(F(x)=\log _{4} x\) is \(\qquad\) _.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 11c of 15 ( 1 Graphing Logarithmic Functions 299368)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: (1,0), 1,0
Question: The \(x\)-intercept of \(F(x)=\log _{6} x\) is \(\qquad\) .
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 12a of 15 ( 2 Graphing Logarithmic Functions 119693)

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
2

True-False

The function \(F(x)=\log _{0.5} x\) is decreasing.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline \hline B. & False & \\
\hline
\end{tabular}
\begin{tabular}{|l|}
\hline Global I ncorrect Feedback \\
\hline The correct answer is: True. \\
\hline
\end{tabular}

Question 12b of 15 ( 2 Graphing Logarithmic Functions 299369 )
\begin{tabular}{ll} 
Maximum Attempts: & 1 \\
Question Type: & True-False \\
Maximum Score: & 2
\end{tabular}

Question: The function \(F(x)=\log _{0.75} x\) is decreasing.
\begin{tabular}{|l||l|l|}
\hline \hline *. & True & \\
\hline \hline B. & False & \\
\hline & Global I ncorrect Feedback \\
\hline \hline The correct answer is: True. \\
\hline
\end{tabular}

Question 12c of 15 ( 2 Graphing Logarithmic Functions 299370 )
\begin{tabular}{ll|l|} 
Maximum Attempts: & 1 & \\
Question Type: & True-False \\
Maximum Score: & 2 & The function \(\mathrm{F}(\mathrm{x})=\log _{0.5} \mathrm{x}\) is increasing. \\
Question: & Feedback \\
\hline \hline & Choice & \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

\section*{Global I ncorrect Feedback}

The correct answer is: False.

Question 13a of 15 ( 2 Graphing Logarithmic Functions 119698 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:
1

2

Text Fill In Blank
false
\((1,0), 1,0\)
The \(x\)-intercept of \(F(x)=\log _{0.5} x\) is \(\qquad\) _.
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 13b of 15 ( 2 Graphing Logarithmic Functions 299371)
\begin{tabular}{ll} 
Maximum Attempts: & 1 \\
Question Type: & Text Fill In Blank \\
Maximum Score: & 2
\end{tabular}
Is Case Sensitive: false

Correct Answer: \(\quad(1,0), 1,0\)
Question: The \(x\)-intercept of \(F(x)=\log _{0.25} x\) is \(\qquad\) .
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 13c of 15 ( 2 Graphing Logarithmic Functions 299372)
Maximum Attempts: 1
Question Type:
Maximum Score:
Text Fill In Blank
2
Is Case Sensitive:
false
Correct Answer:
Question:
(1,0), 1,0
The \(x\)-intercept of \(F(x)=\log _{0.15} x\) is \(\qquad\) .
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \((1,0)\). \\
\hline
\end{tabular}

Question 14a of 15 (2 Graphing Logarithmic Functions 119701)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: \(\quad\) For what values of \(b\) will \(F(x)=\log _{b} x\) be an increasing function?
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & b \(<0\) & \\
\hline \hline B. & b \(>0\) & \\
\hline *C. & b \(>1\) & \\
\hline D. & b \(<1\) & \\
\hline
\end{tabular}

Question 14b of 15 ( 2 Graphing Logarithmic Functions 299373)
Maximum Attempts: 1
\(\begin{array}{ll}\text { Question Type: } & \text { M } \\ \text { Maximum Score: } & 2\end{array}\)
Question: \(\quad\) For what values of \(b\) will \(F(x)=\log _{b} x\) be an increasing function?
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & b \(<0\) & \\
\hline \hline B. & b \(>0\) & \\
\hline \hline C. & b \(<1\) & \\
\hline \hline *D. & b \(>1\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: b > 1 .

Question 14c of 15 ( 2 Graphing Logarithmic Functions 299374 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: \(\quad\) For what values of \(b\) will \(F(x)=\log _{b} x\) be an increasing function?
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & b \(<1\) & \\
\hline \hline *B. & b \(>1\) & \\
\hline C. & b \(>0\) & \\
\hline \hline D. & b \(<0\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\mathrm{b}>1\).

Question 15a of 15 ( 2 Graphing Logarithmic Functions 119704 )
Maximum Attempts: 1
Question Type:
Maximum Score: Multiple Choice

Question: 2 For what values of \(b\) will \(F(x)=\log _{b} x\) be a decreasing function?
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline\(*\) A. & \(0<\mathrm{b}<1\) & \\
\hline \hline B. & \(\mathrm{b}>0\) & \\
\hline \hline C. & \(\mathrm{b}<0\) & \\
\hline \hline D. & \(0>\mathrm{b}>-1\) & \\
\hline \hline
\end{tabular}

\section*{Global I ncorrect Feedback}

The correct answer is: \(0<\mathrm{b}<1\).

Question 15b of 15 ( 2 Graphing Logarithmic Functions 299375 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2

Question: For what values of \(b\) will \(F(x)=\log _{b} x\) be a decreasing function?
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\mathrm{b}<0\) & \\
\hline \hline B. & b>0 & \\
\hline \hline *. & \(0<\mathrm{b}<1\) & \\
\hline D. & \(0>\mathrm{b}>-1\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(0<b<1\).

Question 15c of 15 ( 2 Graphing Logarithmic Functions 299376)
Maximum Attempts: 1
\(\begin{array}{ll}\text { Question Type: } & \text { M } \\ \text { Maximum Score: } & 2\end{array}\)
Question: \(\quad\) For what values of \(b\) will \(F(x)=\log _{b} x\) be a decreasing function?
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(0>\mathrm{b}>-1\) & \\
\hline \hline *B. & \(0<\mathrm{b}<1\) & \\
\hline C. & \(\mathrm{b}<0\) & \\
\hline \hline D. & \(\mathrm{b}>0\) & \\
\hline \hline
\end{tabular}

\section*{Quiz: Equivalent Logarithmic Expressions}

Question 1a of 15 (3 Equivalent Logarithmic Expressions 91899)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log 2-\log 6\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline *A. & \(\log (2)+\log \left(\frac{\mathbf{1}}{\mathbf{5}}\right)\) \\
\hline B. & \(\log 2\) \\
\hline \hline\(*\) C. & \(\log \left(\frac{\mathbf{1}}{\mathbf{3}}\right)\) \\
\hline D. & \(\log 3\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(\log (2)+\log \left(\frac{\mathbf{1}}{\mathbf{6}}\right)\) \\
& and \(\log \left(\frac{\mathbf{1}}{\mathbf{3}}\right)\). \\
\hline
\end{tabular}

Question 1 b of 15 ( 3 Equivalent Logarithmic Expressions 299707)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log 2-\log 4\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & \(\log (2)+\log \left(\frac{\mathbf{1}}{\mathbf{4}}\right)\) \\
\hline B. & \(\log 1\) \\
\hline \hline *C. & \(\log \left(\frac{1}{\nearrow}\right)\) \\
\hline D. & \(\log 2\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(\log (2)+\log \left(\frac{1}{4}\right)\) \\
& and \(\log \left(\frac{1}{2}\right)\). \\
\hline \hline
\end{tabular}

\section*{Question 1c of 15 ( 3 Equivalent Logarithmic Expressions 299708)}

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log 2-\log 8\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & \(\log 2\) \\
\hline \hline *B. & \(\log (2)+\log \left(\frac{1}{\mathbf{B}}\right)\) \\
\hline C. & \(\log 4\) \\
\hline \hline *D. & \(\log \left(\frac{\mathbf{1}}{4}\right)\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(\log (2)+\log \left(\frac{1}{\sqrt{1}}\right)\) \\
& and \(\log \left(\frac{\mathbf{1}}{4}\right)\). \\
\hline
\end{tabular}

Question 2a of 15 ( 3 Equivalent Logarithmic Expressions 91900 )

\section*{Maximum Attempts: 1 \\ 1}

Question Type:
Maximum Score:
Question:

Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.
\(\log 5-\log 20\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & \(\log 4\) \\
\hline \hline B. & \(\log 5\) \\
\hline \hline *C. & \(\log \left(\frac{\mathbf{1}}{4}\right)\) \\
\hline \hline *D. & \(\log (5)+\log \left(\frac{1}{20}\right)\) \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline The correct answers are: \(\log \left(\frac{\mathbf{1}}{\mathbf{4}}\right)\) and \(\log (5)\) \\
\(+\log \left(\frac{1}{20}\right)\). \\
\hline
\end{tabular}

Question 2 b of 15 ( 3 Equivalent Logarithmic Expressions 299709 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log 5-\log 25\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline *A. & \(\log \left(\frac{\mathbf{1}}{\boldsymbol{5}}\right)\) \\
\hline B. & \(\log 5\) \\
\hline C. & \(\log 10\) \\
\hline *D. & \(\log (5)+\log \left(\frac{\mathbf{1}}{\mathbf{2 E}}\right)\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(\log \left(\frac{\mathbf{1}}{5}\right)\) and \(\log (5)\) \\
& \(+\log \left(\frac{1}{25}\right)\). \\
\hline
\end{tabular}

Question 2c of 15 (3 Equivalent Logarithmic Expressions 299710)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that
apply.
\(\log 4-\log 20\)

Correct Answers:
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & \(\log \left(\frac{1}{5}\right)\) \\
\hline
\end{tabular}
B. \(\log 5\)
C. \(\quad \log 4\)
*D. \(\left\lvert\, \log (4)+\log \left(\frac{1}{20}\right)\right.\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & \\
& The correct answers are: \(\log \left(\frac{1}{5}\right)\) and \(\log (4)\) \\
& \(+\log \left(\frac{1}{20}\right)\). \\
\hline
\end{tabular}

Question 3a of 15 ( 3 Equivalent Logarithmic Expressions 91901 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.
\(\log _{2} 2+\log _{2} 8\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & \(\log 10\) \\
\hline \hline *B. & \(\log _{2}\left(2^{4}\right)\) \\
\hline *C. & 4 \\
\hline *D. & \(\log _{2} 16\) \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(\log _{2}\left(2^{4}\right), 4\), and \(\log _{2}\) \\
16.
\end{tabular} \\
\hline
\end{tabular}

Question 3b of 15 ( 3 Equivalent Logarithmic Expressions 299711)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log _{3} 3+\log _{3} 27\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & \(\log _{3} 81\) \\
\hline \hline\(*\) B. & \(\log _{3}\left(3^{4}\right)\) \\
\hline\(*\) C. & 4 \\
\hline D. & \(\log 10\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(\log _{3} 81, \log _{2}\left(3^{4}\right)\), and \\
4.
\end{tabular} \\
\hline
\end{tabular}

Question 3c of 15 ( 3 Equivalent Logarithmic Expressions 299712 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that
apply.
\(\log _{5} 5+\log _{5} 125\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline *A. & 4 \\
\hline *B. & \(\log _{5}\left(5^{4}\right)\) \\
\hline C. & \(\log 10\) \\
\hline \hline *D. & \(\log _{5} 625\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(4, \log _{5}\left(5^{4}\right)\), and \\
\(\log _{5} 625\).
\end{tabular} \\
\hline
\end{tabular}

Question 4a of 15 ( 3 Equivalent Logarithmic Expressions 91902 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log _{3} 81+\log _{3} 81\)

Correct Answers:
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & 8 \\
\hline B. & \(\log 6561\) \\
\hline \hline *C. & \(\log _{3}\left(3^{8}\right)\) \\
\hline \hline *D. & \(\log _{3} 6561\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & \\
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(8, \log _{3}\left(3^{8}\right)\), and \(\log _{3}\) \\
6561.
\end{tabular} \\
\hline
\end{tabular}

Question 4b of 15 (3 Equivalent Logarithmic Expressions 299714 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log _{5} 125+\log _{5} 125\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline *A. & 6 \\
\hline *B. & \(\log _{5}\left(5^{6}\right)\) \\
\hline C. & \(\log 15625\) \\
\hline \hline *D. & \(\log _{5} 15625\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(6, \log _{5}\left(5^{6}\right)\), and \(\log _{5}\) \\
15625.
\end{tabular} \\
\hline
\end{tabular}

Question 4c of 15 (3 Equivalent Logarithmic Expressions 299713)
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.
\(\log _{2} 16+\log _{2} 16\)
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(\log 256\) \\
\hline *B. & 8 \\
\hline *C. & \(\log _{2}\left(2^{8}\right)\) \\
\hline *D. & \(\log _{2} 256\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feed back \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(8, \log _{2}\left(2^{8}\right)\), and \(\log _{2}\) \\
256.
\end{tabular} \\
\hline
\end{tabular}

Question 5a of 15 ( 3 Equivalent Logarithmic Expressions 91903)
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.
\(\ln \left(\mathrm{e}^{2}\right)\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & 2 e \\
\hline \hline *B. & 2 In e \\
\hline C. & 1 \\
\hline \hline *D. & 2 \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(2 \cdot \ln\) e and 2. \\
\hline \hline
\end{tabular}

Question 5b of 15 (3 Equivalent Logarithmic Expressions 299715)
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Response 2

Which expressions are equivalent to the one below? Check all that apply.
\(\ln \left(\mathrm{e}^{3}\right)\)

Correct Answers:
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & 3 • \(\ln \mathrm{e}\) \\
\hline \hline *B. & 3 \\
\hline C. & 1 \\
\hline \hline D. & 3 e \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(3 \bullet\) In e and 3. \\
\hline
\end{tabular}

Question 5c of 15 (3 Equivalent Logarithmic Expressions 299716)
Maximum Attempts: 1
Question Type:
Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that apply.
\(\ln \left(e^{5}\right)\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & 5 e \\
\hline \hline *B. & 5 \\
\hline C. & 1 \\
\hline \hline *D. & \(5 \cdot \ln \mathrm{e}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: 5 and 5 ln e. \\
\hline \hline
\end{tabular}

Question 6a of 15 ( 3 Equivalent Logarithmic Expressions 91904)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log \left(10^{5}\right)\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & \(5 \cdot 10\) \\
\hline \hline *B. & 5 \\
\hline C. & 1 \\
\hline \hline *D. & \(5 \cdot \log 10\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: 5 and \(5 \cdot \log 10\). \\
\hline \hline
\end{tabular}

Question 6b of 15 ( 3 Equivalent Logarithmic Expressions 299717 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that apply.

Correct Answers:
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & 7 *10 \\
\hline \hline *B. & 7 \\
\hline \hline C. & 7 * log 10 \\
\hline D. & 1 \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: 7 and \(7 \bullet \log 10\). \\
\hline
\end{tabular}

Question 6c of 15 ( 3 Equivalent Logarithmic Expressions 299718 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that apply.
\(\log \left(10^{3}\right)\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline *A. & 3 - \(\log 10\) \\
\hline B. & 1 \\
\hline \hline *C. & 3 \\
\hline D. & \(3=10\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline
\end{tabular}
```

The correct answers are: 3 | log 10 and 3.

```

Question 7a of 15 ( 3 Equivalent Logarithmic Expressions 91905)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that apply.
\(\log _{7} 7 \cdot \log _{3} 9\)
Correct Answers:
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(2 \cdot 7\) \\
\hline B. & \(2 \cdot 10\) \\
\hline *C. & 2 \\
\hline *D. & \(2 \cdot \log _{7} 7\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: 2 and \(2 \bullet \log _{7} 7\). \\
\hline \hline
\end{tabular}

Question 7 b of 15 ( 3 Equivalent Logarithmic Expressions 299719 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log _{9} 9 \bullet \log _{2} 8\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline *A. & 3 \\
\hline B. & \(2 \cdot 11\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline C. & \(2 \bullet 9\) \\
\hline \hline *D. & \(3 \cdot \log _{9} 9\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answers are: 3 and \(3 \cdot \log _{9} 9\). \\
\hline \hline
\end{tabular}

Question 7c of 15 (3 Equivalent Logarithmic Expressions 299720 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\log _{5} 5 * \log _{2} 4\)

Correct Answers:
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline *A. & 2 \\
\hline B. & \(2 \bullet 7\) \\
\hline \hline C. & \(3 \bullet 5\) \\
\hline *D. & \(2 \bullet \log _{5} 5\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: 2 and \(2 \bullet \log _{5} 5\). \\
\hline
\end{tabular}

Question 8a of 15 (3 Equivalent Logarithmic Expressions 91906)
Maximum Attempts: 1
Question Type: Multiple Response

Maximum Score:
Question:

Which expressions are equivalent to the one below? Check all that apply.
\(\log _{8} 1 \cdot \log _{3} 27\)

\section*{Correct Answers:}
\begin{tabular}{|l||l|}
\hline \hline & Choice \\
\hline \hline A. & \(3 \cdot 8\) \\
\hline \hline B. & \(3 \cdot \log _{8} 8\) \\
\hline *C. & 0 \\
\hline D. & 1 \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0. \\
\hline
\end{tabular}

Question 8b of 15 ( 3 Equivalent Logarithmic Expressions 299721 )
Maximum Attempts: 1
Question Type:
Multiple Response
Maximum Score:
Question:

2
Which expressions are equivalent to the one below? Check all that apply.
\(\log _{7} 1 \cdot \log _{5} 25\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline *A. & 0 \\
\hline B. & \(2-\log _{7} 7\) \\
\hline \hline C. & \(5-7\) \\
\hline D. & 1 \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline
\end{tabular}

\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0. \\
\hline
\end{tabular}

Question 8c of 15 ( 3 Equivalent Logarithmic Expressions 299722 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

1
Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.
\(\log _{9} 1 \cdot \log _{9} 81\)

Correct Answers:
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(9 \bullet 9\) \\
\hline \hline B. & \(9 \bullet \log _{9} 9\) \\
\hline C. & 1 \\
\hline \hline *D. & 0 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0. \\
\hline \hline
\end{tabular}

Question 9a of 15 ( 2 Equivalent Logarithmic Expressions 119823)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0
Question: For any positive number b not equal to \(1, \log _{b} 1=\) \(\qquad\) _.
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & \\
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0. \\
\hline
\end{tabular}

Question 9b of 15 ( 2 Equivalent Logarithmic Expressions 299723 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0
Question: \(\quad\) For any positive number b not equal to \(1, \log _{b} 1=\) \(\qquad\) .
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 0. \\
\hline
\end{tabular}

Question 9c of 15 (2 Equivalent Logarithmic Expressions 299724 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0
Question: \(\quad\) For any positive number b not equal to \(1, \log _{b} 1=\) \(\qquad\) _.
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 0. \\
\hline
\end{tabular}

Question 10a of 15 ( 2 Equivalent Logarithmic Expressions 119824)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank

Maximum Score: 2
Correct Answer: 1
Question: \(\quad\) For any positive number \(b\) not equal to \(1, \log _{b} b=\) \(\qquad\) -.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1. \\
\hline
\end{tabular}

Question 10b of 15 ( 2 Equivalent Logarithmic Expressions 299725 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1
Question:
For any positive number \(b\) not equal to \(1, \log _{b} b=\) \(\qquad\) _.
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1. \\
\hline
\end{tabular}

Question 10c of 15 ( 2 Equivalent Logarithmic Expressions 299726 )

\section*{Maximum Attempts: 1}

Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1
Question:
For any positive number \(b\) not equal to \(1, \log _{b} b=\) \(\qquad\) _.
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1. \\
\hline
\end{tabular}

Question 11a of 15 (2 Equivalent Logarithmic Expressions 120048)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: \(\quad\) For any positive numbers \(a, b\), and \(d\), with \(b \neq 1, \log _{b}(a \cdot d)=\ldots \ldots\).
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\mathrm{d} \cdot \log _{\mathrm{b}} \mathrm{a}\) & \\
\hline \hline *B. & \(\log _{\mathrm{b}} \mathrm{a}+\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline C. & \(\log _{\mathrm{b}} \mathrm{a}-\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline \hline D. & \(\log _{\mathrm{b}} \mathrm{a}-\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\log _{\mathrm{b}} \mathrm{a}+\log _{\mathrm{b}} \mathrm{d}\).

Question 11b of 15 ( 2 Equivalent Logarithmic Expressions 299728 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: \(\quad\) For any positive numbers \(a, b\), and \(d\), with \(b \neq 1, \log _{b} a+\log _{b} d=\) --_-_•
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(\mathrm{d} \cdot \log _{\mathrm{b}} \mathrm{a}\) & \\
\hline \hline B. & \(\log _{\mathrm{b}} \mathrm{a}-\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline \hline C. & \(\log _{\mathrm{b}} \mathrm{a} \cdot \log _{\mathrm{b}} \mathrm{d}\) & \\
\hline *D. & \(\log _{\mathrm{b}}(\mathrm{a} \cdot \mathrm{d})\) & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\log _{\mathrm{b}}(\mathrm{a} \cdot \mathrm{d})\).

Question 11c of 15 ( 2 Equivalent Logarithmic Expressions 299729 )
Maximum Attempts: 1
Question Type:
Multiple Choice
Maximum Score: 2

Question:
For any positive numbers \(a, b\), and \(d\), with \(b \neq 1\),
\(\log _{b}\left(\frac{a}{d^{\prime}}\right)=\) \(\qquad\) -
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(\mathrm{d}-\log _{\mathrm{b}} \mathrm{a}\) & \\
\hline \hline B. & \(\log _{\mathrm{b}} \mathrm{a}+\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline \hline C. & \(\log _{\mathrm{b}} \mathrm{a}-\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline \hline *D. & \(\log _{\mathrm{b}} \mathrm{a}-\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(\log _{\mathrm{b}} \mathrm{a}-\log _{\mathrm{b}} \mathrm{d}\).

Question 12a of 15 ( 2 Equivalent Logarithmic Expressions 120049 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
For any positive numbers \(a, b\), and \(d\), with \(b \neq 1, \log _{b}\left(a^{d}\right)=\) \(\qquad\)
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & \(d+\log _{\mathrm{b}} \mathrm{a}\) & \\
\hline \hline B. & \(\mathrm{a}^{\mathrm{d}} \log _{\mathrm{b}} \mathrm{a}^{\mathrm{d}}\) & \\
\hline \hline *. & \(\mathrm{d} \cdot \log _{\mathrm{b}} \mathrm{a}\) & \\
\hline D. & \(\log _{\mathrm{b}} \mathrm{a}+\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(d \log _{\mathrm{b}} \mathrm{a}\).

Question 12b of 15 ( 2 Equivalent Logarithmic Expressions 299730 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question:
For any positive numbers \(a, b\), and \(d\), with \(b \neq 1, \log _{b}\) \(\qquad\) \(=d \cdot \log _{b}\) a.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline *A. & \(a^{d}\) & \\
\hline B. & \(a^{d} \cdot \log _{\mathrm{b}} \mathrm{a}^{\mathrm{d}}\) & \\
\hline \hline C. & \(\mathrm{d}^{\mathrm{a}}\) & \\
\hline
\end{tabular}
D. \(\log _{\mathrm{b}} \mathrm{a}+\log _{\mathrm{b}} \mathrm{d}\)

Global I ncorrect Feedback
The correct answer is: \(a^{d}\).

Question 12c of 15 ( 2 Equivalent Logarithmic Expressions 299731 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 2
Question: \(\quad\) For any positive numbers \(a, b\), and \(d\), with \(b \neq 1, \log _{b}\left(a^{d}\right)=\) \(\qquad\)
\begin{tabular}{|l|l||l|}
\hline & Choice & Feedback \\
\hline \hline A. & \(d+\log _{\mathrm{b}} \mathrm{a}\) & \\
\hline \hline B. & \(\mathrm{a}^{\mathrm{d}} \cdot \log _{\mathrm{b}} \mathrm{a}^{\mathrm{d}}\) & \\
\hline \hline *. & \(\mathrm{d} \cdot \log _{\mathrm{b}} \mathrm{a}\) & \\
\hline D. & \(\log _{\mathrm{b}} \mathrm{a}+\log _{\mathrm{b}} \mathrm{d}\) & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: \(d=\log _{\mathrm{b}} \mathrm{a}\).

Question 13a of 15 ( 2 Equivalent Logarithmic Expressions 120050 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

True-False
2
The log of a quotient is the log of the numerator minus the log of the denominator.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline \hline B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 13b of 15 ( 2 Equivalent Logarithmic Expressions 299732 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2

Question: The \(\log\) of a quotient is the log of the numerator divided by the log of
the denominator.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline
\end{tabular}

\section*{Global I ncorrect Feedback}

The correct answer is: False.

Question 13c of 15 ( 2 Equivalent Logarithmic Expressions 299733 )
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:

True-False
2
The log of a quotient is the log of the numerator plus the log of the denominator.
\begin{tabular}{|l||l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline \hline *B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: False.

Question 14a of 15 ( 3 Equivalent Logarithmic Expressions 119830 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:
2

Text Fill In Blank
false
\(\log (x), \log (x), \log x, \log x\)
Simplify the following expression.
\(\log \left(x^{2}\right)-\log (x)\).
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\log (x)\). \\
\hline
\end{tabular}

Question 14b of 15 ( 3 Equivalent Logarithmic Expressions 299734 )

Maximum Attempts:
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:

1
Text Fill In Blank
2
false
\(\log (x), \log (x), \log x, \log x\)
Simplify the following expression.
\(\log \left(x^{3}\right)-\log \left(x^{2}\right)\).
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\log (x)\). \\
\hline \hline
\end{tabular}

Question 14c of 15 ( 3 Equivalent Logarithmic Expressions 299735)

Maximum Attempts: 1
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:
2

Text Fill In Blank
false
\(\log (x), \log (x), \log x, \log x\)
Simplify the following expression.
\(\log \left(x^{4}\right)-\log \left(x^{3}\right)\).
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\log (x)\). \\
\hline
\end{tabular}

Question 15a of 15 ( 3 Equivalent Logarithmic Expressions 119833)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2

Is Case Sensitive:
false
Correct Answer: \(\log 16,2 \log 4,4 \log 2, \log 16, \log (16), 2 \log (4), 4 \log (2), \log (16)\)
Question:
Simplify the following expression.
\(\log \left(16 x^{2}\right)+2 \log \left(\frac{1}{x}\right)\).
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\log 16\). \\
\hline
\end{tabular}

Question 15b of 15 ( 3 Equivalent Logarithmic Expressions 299736)
Maximum Attempts: 1
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:
1
Text Fill In Blank 2
false \(\log 25,2 \log 5, \log 25, \log (25), 2 \log (5), \log (25)\) Simplify the following expression.
\(\log \left(25 x^{3}\right)+3 \log \left(\frac{1}{x}\right)\).
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\log 25\). \\
\hline
\end{tabular}

Question 15c of 15 (3 Equivalent Logarithmic Expressions 299737)

Maximum Attempts:
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:

Text Fill In Blank
2
false
\(\log 9,2 \log 3, \log 9, \log (9), 2 \log (3), \log (9)\)
\[
\log \left(9 x^{5}\right)+5 \log \left(\frac{1}{x}\right)
\]
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(\log 9\). \\
\hline \hline
\end{tabular}

Quiz: Evaluating Logarithms

Question 1a of 15 ( 3 Evaluating Logarithms 91853 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.13
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{7} 9\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.13. \\
\hline
\end{tabular}

Question 1 b of 15 ( 3 Evaluating Logarithms 300097 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score:
2
Correct Answer:
0.89

Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{9} 7\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.89. \\
\hline
\end{tabular}

Question 1c of 15 ( 3 Evaluating Logarithms 300098)
```

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.16
Question: Evaluate the following expression. Round your answer to two decimal
places.
$\log _{6} 8$

| Attempt | I ncorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  |  |


|  | Global I ncorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 1.16. |

```

Question 2a of 15 (3 Evaluating Logarithms 91854 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 3.17
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{2} 9\)
\(\square\)
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 3.17. \\
\hline
\end{tabular}

Question 2 b of 15 ( 3 Evaluating Logarithms 300099 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.1
Question:
Evaluate the following expression. Round your answer to two decimal
places.
\(\log _{3} 10\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.10. \\
\hline
\end{tabular}

Question 2c of 15 ( 3 Evaluating Logarithms 300100 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.18
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{3} 11\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.18. \\
\hline
\end{tabular}

Question 3a of 15 ( 3 Evaluating Logarithms 91855 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.51
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{7} \mathrm{e}\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.51. \\
\hline
\end{tabular}

Question 3b of 15 (3 Evaluating Logarithms 300101)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.48
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{8} \mathrm{e}\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.48. \\
\hline
\end{tabular}

Question 3c of 15 ( 3 Evaluating Logarithms 300102 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.56
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{6} \mathrm{e}\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & The correct answer is: 0.56.
\end{tabular}

Question 4a of 15 ( 3 Evaluating Logarithms 91856 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.62
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{5} \mathrm{e}\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.62. \\
\hline
\end{tabular}

Question 4b of 15 ( 3 Evaluating Logarithms 300103)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.43
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{10} \mathrm{e}\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.43. \\
\hline
\end{tabular}

Question 4c of 15 ( 3 Evaluating Logarithms 300104 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Correct Answer:
Question:

Numeric Fill In Blank
2 0.37

Evaluate the following expression. Round your answer to two decimal places.
\(\log _{15} \mathrm{e}\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.37. \\
\hline
\end{tabular}

Question 5a of 15 ( 3 Evaluating Logarithms 91857 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 3
Question: Evaluate the following expression. You should do this problem without a calculator.
\(e^{\ln 3}\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 3. \\
\hline
\end{tabular}

Question 5b of 15 ( 3 Evaluating Logarithms 300105)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 6
Question:
Evaluate the following expression. You should do this problem without a calculator.
\[
e^{\ln 6}
\]
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 6. \\
\hline
\end{tabular}

Question 5c of 15 ( 3 Evaluating Logarithms 300106 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 5
Question: Evaluate the following expression. You should do this problem without a calculator.
\(e^{\ln 5}\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 5. \\
\hline
\end{tabular}

Question 6a of 15 ( 3 Evaluating Logarithms 91858 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: e
Question: Evaluate the following expression. You should do this problem without a calculator.
\(\ln e^{e}\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: e. \\
\hline
\end{tabular}

Question 6b of 15 ( 3 Evaluating Logarithms 300107 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: e
Question: Evaluate the following expression. You should do this problem without a calculator.

In \(e^{e}\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: e. \\
\hline
\end{tabular}

Question 6c of 15 ( 3 Evaluating Logarithms 300108 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: e
Question: Evaluate the following expression. You should do this problem without a calculator.

In \(e^{e}\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: e. \\
\hline
\end{tabular}

Question 7a of 15 ( 3 Evaluating Logarithms 91859 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 4
Question: Evaluate the following expression. You should do this problem without a calculator.
\(\log _{4} 256\)
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 4. \\
\hline
\end{tabular}

Question 7b of 15 ( 3 Evaluating Logarithms 300109 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 5
Question:
Evaluate the following expression. You should do this problem without a calculator.
\(\log _{2} 32\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 5. \\
\hline
\end{tabular}

Question 7c of 15 ( 3 Evaluating Logarithms 300110 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 3
Question: Evaluate the following expression. You should do this problem without a calculator.
\(\log _{5} 125\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 3. \\
\hline
\end{tabular}

Question 8a of 15 ( 3 Evaluating Logarithms 91860 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2
Question: Evaluate the following expression. You should do this problem without a calculator.
\(\log _{2} 4\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2. \\
\hline
\end{tabular}

Question 8b of 15 ( 3 Evaluating Logarithms 300111 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2

Question: Evaluate the following expression. You should do this problem without a calculator.
\(\log _{10} 100\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2. \\
\hline
\end{tabular}

Question 8c of 15 ( 3 Evaluating Logarithms 300112 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2
Question: Evaluate the following expression. You should do this problem without a calculator.
\(\log _{4} 16\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2. \\
\hline
\end{tabular}

Question 9a of 15 ( 3 Evaluating Logarithms 120037 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: n
Question:
For any positive number b not equal to 1 and any number or variable \(n\), evaluate the following expression.
\(\log _{b}\left(b^{n}\right)=\) \(\qquad\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: n. \\
\hline
\end{tabular}

Question 9b of 15 (3 Evaluating Logarithms 300113)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive:
false
Correct Answer:
n
Question: For any positive number \(b\) not equal to 1 and any number or variable \(n\), evaluate the following expression.
\(\log _{b}\left(b^{n}\right)=\) \(\qquad\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: n. \\
\hline \hline
\end{tabular}

\section*{Question 9c of 15 ( 3 Evaluating Logarithms 300114 )}

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: n
Question: For any positive number \(b\) not equal to 1 and any number or variable \(n\), evaluate the following expression.
\[
\log _{b}\left(b^{n}\right)=
\]
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: n. \\
\hline
\end{tabular}

Question 10a of 15 (3 Evaluating Logarithms 120038)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: n
Question: For any positive number b not equal to 1 and any number or variable \(n\), evaluate the following expression.
\(b^{\log _{b} n}=\) \(\qquad\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: n. \\
\hline
\end{tabular}

Question 10b of 15 (3 Evaluating Logarithms 300115 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: n
Question: For any positive number \(b\) not equal to 1 and any number or variable \(n\), evaluate the following expression.
\(b^{\log _{b} n}=\) \(\qquad\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: n. \\
\hline
\end{tabular}

Question 10c of 15 (3 Evaluating Logarithms 300116)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: n
Question: For any positive number b not equal to 1 and any number or variable \(n\), evaluate the following expression.
\(b^{\log _{b} n}=\) \(\qquad\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: n. \\
\hline
\end{tabular}

Question 11a of 15 ( 3 Evaluating Logarithms 120042 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Correct Answer:
Question:
Complete the following equation.
\(\ln 5+\ln 7=\ln\) \(\qquad\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 35. \\
\hline
\end{tabular}

Question 11b of 15 ( 3 Evaluating Logarithms 300117 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 42
Question: Complete the following equation.
\(\ln 6+\ln 7=\ln\) \(\qquad\)
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 42. \\
\hline
\end{tabular}

Question 11c of 15 ( 3 Evaluating Logarithms 300118 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Correct Answer:
Question: Complete the following equation.
\(\ln 5+\ln 8=\ln\) \(\qquad\)
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 40. \\
\hline \hline
\end{tabular}

Question 12a of 15 (3 Evaluating Logarithms 120043 )


Question 12b of 15 (3 Evaluating Logarithms 300119 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer:
Question:
\(5^{*} \ln 3,5 \ln 3,5^{*} \ln (3), 5 \ln (3), 5^{*} \ln 3,5 \ln 3,5^{*} \ln (3), 5 \ln (3)\)
Simplify the following expression. Use an asterisk (*) for multiplication.
\(\ln \left(3^{5}\right)\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(5 * \ln 3\). \\
\hline
\end{tabular}

Question 12c of 15 ( 3 Evaluating Logarithms 300120 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer: \(\quad 3^{*} \ln 2,3 \ln 2,3^{*} \ln (2), 3 \ln (2), 3^{*} \ln 2,3 \ln 2,3^{*} \ln (2), 3 \ln (2)\)

Question: Simplify the following expression. Use an asterisk (*) for multiplication.
\(\ln \left(2^{3}\right)\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: \(3 * \ln 2\). \\
\hline
\end{tabular}

Question 13a of 15 ( 3 Evaluating Logarithms 120045 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Correct Answer:
Question:
2
2

Numeric Fill In Blank

Evaluate the following expression.
\(\log _{3} 9\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2. \\
\hline
\end{tabular}

Question 13b of 15 ( 3 Evaluating Logarithms 300122 )

Maximum Attempts:
Question Type:
Maximum Score:
Correct Answer:
Question:

1
Numeric Fill In Blank
2
2
Evaluate the following expression.
\(\log _{9} 81\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline
\end{tabular}

\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2. \\
\hline
\end{tabular}

Question 13c of 15 ( 3 Evaluating Logarithms 300124 )

\section*{Maximum Attempts: \\ 1}

Question Type:
Maximum Score:
Correct Answer:
Question:

Numeric Fill In Blank
2 2
Evaluate the following expression.
\(\log _{8} 64\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2. \\
\hline
\end{tabular}

Question 14a of 15 (3 Evaluating Logarithms 120046 )

Maximum Attempts:
Question Type:
Maximum Score:
Correct Answer:
Question:

1
Numeric Fill In Blank
2
4
Evaluate the following expression.
\(e^{\ln 4}\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 4. \\
\hline
\end{tabular}

Question 14b of 15 ( 3 Evaluating Logarithms 300125 )

Maximum Attempts:
Question Type:
Maximum Score:
Correct Answer:
Question:

1
Numeric Fill In Blank
2
7
Evaluate the following expression.
\(e^{\ln 7}\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 7. \\
\hline
\end{tabular}

Question 14c of 15 ( 3 Evaluating Logarithms 300126 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Correct Answer:
Question:1

2 2

Numeric Fill In Blank

Evaluate the following expression.
\(e^{\ln 2}\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2. \\
\hline \hline
\end{tabular}

Question 15a of 15 ( 3 Evaluating Logarithms 120047)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.26
Question: Evaluate the following expression. Round your answer to two decimal
places.
\(\log _{3} 12\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.26. \\
\hline
\end{tabular}

Question 15b of 15 ( 3 Evaluating Logarithms 300127 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score:
Correct Answer:
2

Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{2} 10\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 3.32. \\
\hline
\end{tabular}

Question 15c of 15 ( 3 Evaluating Logarithms 300128 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.81
Question: Evaluate the following expression. Round your answer to two decimal places.
\(\log _{2} 7\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.81. \\
\hline
\end{tabular}

\section*{Quiz: Equivalent Exponential Expressions}

Question 1a of 8 ( 2 Evaluating Exponential Expressions 91837)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(5^{4} \cdot 5^{x}\)

Correct Answers:
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(625 \cdot 5^{\times}\) \\
\hline B. & \(5^{4-x}\) \\
\hline \hline C. & \((5 \cdot x)^{4}\) \\
\hline *D. & \(5^{4+x}\) \\
\hline E. & \(5^{4 \times}\) \\
\hline \hline F. & \(25^{4 \times}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(625 * 5^{\times}\)and \(5^{4+\mathrm{x}}\). \\
\hline
\end{tabular}

Question 1b of 8 ( 2 Evaluating Exponential Expressions 299657)
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

1
Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.
\(7^{3} \cdot 7^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(49^{3 x}\) \\
\hline \hline B. & \(7^{3-x}\) \\
\hline \hline C. & \((7 \cdot x)^{3}\) \\
\hline \hline D. & \(7^{3 x}\) \\
\hline *E. & \(7^{3+x}\) \\
\hline *F. & \(343 \cdot 7^{x}\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(343 \cdot 7^{x}\) and \(7^{3+x}\). \\
\hline
\end{tabular}

Question 1c of 8 ( 2 Evaluating Exponential Expressions 299658)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(3^{4} \cdot 3^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(3^{4-x}\) \\
\hline *B. & \(81 \cdot 3^{x}\) \\
\hline C. & \((3 \cdot x)^{4}\) \\
\hline D. & \(3^{4 \times}\) \\
\hline *E. & \(3^{4+x}\) \\
\hline F. & \(9^{4 x}\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & \\
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(81 \bullet 3^{\mathrm{x}}\) and \(3^{4+\mathrm{x}}\). \\
\hline
\end{tabular}

Question 2a of 8 ( 2 Evaluating Exponential Expressions 91838)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that apply.
```

5

```

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline *A. & \(125 \cdot 5^{x}\) \\
\hline *B. & \(5^{3+x}\) \\
\hline C. & \(25^{3 x}\) \\
\hline D. & \(5^{3 x}\) \\
\hline E. & \((5 \cdot x)^{3}\) \\
\hline F. & \(5^{3-x}\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(125 * 5^{x}\) and \(5^{3+x}\). \\
\hline \hline
\end{tabular}

Question 2b of 8 ( 2 Evaluating Exponential Expressions 299659)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(2^{5} \cdot 2^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(4^{5 x}\) \\
\hline \hline B. & \(2^{5 x}\) \\
\hline \hline *C. & \(32 \cdot 2^{x}\) \\
\hline *D. & \(2^{5+x}\) \\
\hline E. & \((2 \cdot x)^{5}\) \\
\hline \hline F. & \(2^{5-x}\) \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(32 \cdot 2^{x}\) and \(2^{5+x}\). \\
\hline
\end{tabular}

Question 2c of 8 ( 2 Evaluating Exponential Expressions 299660)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(4^{3} \cdot 4^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \((4 \cdot x)^{3}\) \\
\hline *B. & \(4^{3+x}\) \\
\hline \hline C. & \(16^{3 x}\) \\
\hline D. & \(4^{3 x}\) \\
\hline \hline *E. & \(64 \cdot 4^{x}\) \\
\hline F. & \(4^{3-x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline
\end{tabular}

\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(4^{3+x}\) and \(64 \quad 4^{x}\). \\
\hline
\end{tabular}

Question 3a of 8 ( 2 Evaluating Exponential Expressions 91839)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that apply.
\(64^{x}\)

Correct Answers:
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(8 \cdot 8^{x}\) \\
\hline *B. & \(8^{2 x}\) \\
\hline *C. & \(8^{x} \cdot 8^{x}\) \\
\hline D. & \(8^{2} \cdot 8^{x}\) \\
\hline \hline *E. & \((8 \cdot 8)^{x}\) \\
\hline \hline F. & \(8 \cdot 8^{2 x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(8^{2 x}, 8^{x} \cdot 8^{x}\), and \((8 \cdot\) \\
\(8)^{x}\).
\end{tabular} \\
\hline
\end{tabular}

Question 3bof 8 ( 2 Evaluating Exponential Expressions 299661 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline *A. & \(9^{2 x}\) \\
\hline B. & \(9 \cdot 9^{x}\) \\
\hline \hline C. & \(9^{2} \cdot 9^{x}\) \\
\hline *D. & \(9^{x} \cdot 9^{x}\) \\
\hline E. & \(9 \bullet 9^{2 x}\) \\
\hline *F. & \((9 \bullet 9)^{x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(9^{2 x}, 9^{x} \cdot 9^{x}\), and \((9 \cdot\) \\
\(9)^{x}\).
\end{tabular} \\
\hline
\end{tabular}

\section*{Question 3c of 8 ( 2 Evaluating Exponential Expressions 299662 )}

\section*{Maximum Attempts: 1}

Question Type:
Maximum Score:
Question:

Multiple Response
2
Which expressions are equivalent to the one below? Check all that apply.
\(16^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & \(4^{2 \times}\) \\
\hline B. & \(4 \cdot 4^{2 x}\) \\
\hline \hline C. & \(4 \cdot 4^{x}\) \\
\hline \hline D. & \(4^{2} \cdot 4^{x}\) \\
\hline *E. & \(4^{x} \cdot 4^{x}\) \\
\hline *F. & \((4 \cdot 4)^{x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(4^{2 x}, 4^{x} \cdot 4^{x}\), and \((4 \cdot\) \\
\(4)^{x}\).
\end{tabular} \\
\hline
\end{tabular}

Question 4a of 8 ( 2 Evaluating Exponential Expressions 91840)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(25^{\text {x }}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & \(5 \cdot 5^{x}\) \\
\hline \hline B. & \(5^{2} \cdot 5^{\times}\) \\
\hline \hline C. & \(5 \cdot 5^{2 x}\) \\
\hline *D. & \((5 \cdot 5)^{x}\) \\
\hline *E. & \(5^{2 x}\) \\
\hline *F. & \(5^{\times} \cdot 5^{\times}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \((5 \cdot 5)^{x}, 5^{2 x}\), and \(5^{\times}\) \\
\(5^{\times}\).
\end{tabular} \\
\hline
\end{tabular}

Question 4b of 8 ( 2 Evaluating Exponential Expressions 299663 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that
apply.

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline *A. & \((7 \cdot 7)^{x}\) \\
\hline B. & \(7^{2} \cdot 7^{x}\) \\
\hline \hline *C. & \(7^{2 x}\) \\
\hline D. & \(7 \cdot 7^{x}\) \\
\hline \hline E. & \(7 \cdot 7^{2 x}\) \\
\hline \hline *F. & \(7^{x} \cdot 7^{x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \((7 \bullet 7)^{x}, 7^{2 x}\), and \(7^{x}\) \\
\(7^{x}\).
\end{tabular} \\
\hline
\end{tabular}

\section*{Question 4c of 8 ( 2 Evaluating Exponential Expressions 299664 )}

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(9^{\mathrm{x}}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline *A. & \((3 \cdot 3)^{x}\) \\
\hline *B. & \(3^{2 x}\) \\
\hline C. & \(3 \cdot 3^{2 x}\) \\
\hline D. & \(3 \cdot 3^{x}\) \\
\hline \hline E. & \(3^{2} \cdot 3^{x}\) \\
\hline \hline *F. & \(3^{x} \cdot 3^{x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \((3 \div 3)^{x}, 3^{2 x}\), and \(3^{x}\) \\
\(3^{x}\).
\end{tabular} \\
\hline
\end{tabular}

Question 5a of 8 ( 2 Evaluating Exponential Expressions 91841)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\frac{21^{x}}{3^{x}}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & \((21-3)^{x}\) \\
\hline \hline B. & 7 \\
\hline \hline *C. & \(7^{x}\) \\
\hline \hline *D. & \(\left(\frac{21}{3}\right)^{x}\) \\
\hline \hline *E. & \(\frac{7^{x} \cdot 3^{x}}{3^{x}}\) \\
\hline \hline F. & \(3^{x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(7^{\times x}\), \\
\hline \hline
\end{tabular}
\begin{tabular}{|c|c}
\hline & \(\frac{7^{x} \cdot 3^{x}}{3^{x}}\) and \(\left(\frac{21}{3}\right)^{x}\). \\
\hline
\end{tabular}

Question 5b of 8 ( 2 Evaluating Exponential Expressions 299666)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\frac{27^{x}}{9^{x}}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \((27-9)^{x}\) \\
\hline \hline *B. & \(\left(\frac{27}{9}\right)^{x}\) \\
\hline C. & \(9^{x}\) \\
\hline D. & 9 \\
\hline \hline *E. & \(\frac{9 x \cdot 3^{x}}{9^{x}}\) \\
\hline *F. & \(3^{x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(3^{x}\), \\
\(9^{x} \cdot 3^{x}\) \\
\(9^{x}\)
\end{tabular}\(\quad\) and \(\left(\frac{27}{9}\right)^{x}\). \\
\hline
\end{tabular}

Question 5c of 8(2 Evaluating Exponential Expressions 299667)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2

Question: Which expressions are equivalent to the one below? Check all that apply.
\[
\frac{21^{x}}{7^{x}}
\]

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & \((21-7)^{x}\) \\
\hline \hline B. & 3 \\
\hline \hline *C. & \(3^{x}\) \\
\hline D. & \(3^{x-7}\) \\
\hline \hline *E. & \(\frac{7^{x} \cdot 3^{x}}{7^{x}}\) \\
\hline *F. & \(\left(\frac{21}{7}\right)^{x}\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(3^{x}\), \\
\\
\\
\hline \(7^{x} \cdot 3^{x}\) \\
\end{tabular} , and \(\left(\frac{21}{7}\right)^{x}\). \\
\hline
\end{tabular}

Question 6a of 8 ( 2 Evaluating Exponential Expressions 91842 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\frac{25^{x}}{5^{x}}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline *. & \(5^{\times}\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline B. & 5 \\
\hline \hline *C. & \(\left(\frac{25}{5}\right)^{x}\) \\
\hline *D. & \(\frac{5^{x} \cdot 5^{x}}{5^{x}}\) \\
\hline E. & \((25-5)^{x}\) \\
\hline \hline F. & \(25^{x}\) \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(5^{\times}\), \\
& \(\left(\frac{25}{5}\right)^{\times}\), and \(\frac{5^{\times} \cdot 5^{\times}}{5^{\times}}\). \\
\hline
\end{tabular}

Question 6b of 8 ( 2 Evaluating Exponential Expressions 299668 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\frac{16^{x}}{4^{x}}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & 4 \\
\hline \hline *B. & \(4^{x}\) \\
\hline \hline *C. & \(\left(\frac{16}{4}\right)^{x}\) \\
\hline \hline *D. & \(\frac{4^{x} 64^{x}}{4^{x}}\) \\
\hline \hline E. & \((16-4)^{x}\) \\
\hline \hline F. & \(16^{x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(4^{x}\), \\
& \(\left(\frac{16}{4}\right)^{x}\), and \(\frac{4^{x} \cdot 4^{x}}{4^{x}}\). \\
\hline
\end{tabular}

Question 6c of 8 ( 2 Evaluating Exponential Expressions 299670 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(\frac{36^{x}}{6^{x}}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline A. & \((36-6)^{x}\) \\
\hline \hline B. & 6 \\
\hline \hline *C. & \(\left(\frac{36}{6}\right)^{x}\) \\
\hline \hline *D. & \(\frac{6^{x} 66^{x}}{6^{x}}\) \\
\hline *E. & \(6^{x}\) \\
\hline F. & \(36^{x}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(6^{\times}\), \\
& \(\frac{6^{x} \cdot 6^{x}}{6^{x}}\), and \(\left(\frac{36}{5}\right)^{x}\). \\
\hline
\end{tabular}

\section*{Question 7a of 8 ( 2 Evaluating Exponential Expressions 91843)}

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question:
Which expressions are equivalent to the one below? Check all that apply.
\(5^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & \(\frac{15^{x}}{3^{x}}\) \\
\hline B. & \(x^{5}\) \\
\hline \hline C. & \(5 \cdot 5^{x+1}\) \\
\hline \hline *D. & \(\left(\frac{15}{3}\right)^{x}\) \\
\hline *E. & \(5 \cdot 5^{x-1}\) \\
\hline \hline F. & \(\frac{15^{x}}{3}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(5 \cdot 5^{x-1}\), \\
& \(\frac{15^{x}}{3^{x}}, \quad\left(\frac{15}{3}\right)^{\times}\). \\
\hline
\end{tabular}

Question 7b of 8 ( 2 Evaluating Exponential Expressions 299671 )
Maximum Attempts: 1
Question Type:
Maximum Score:
Multiple Response

Question: 2

Which expressions are equivalent to the one below? Check all that apply.

Correct Answers:
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & \(\frac{15^{x}}{5^{x}}\) \\
\hline B. & \(x^{3}\) \\
\hline \hline C. & \(3 \cdot 3^{x+1}\) \\
\hline \hline D. & \(15^{x}\) \\
\hline \hline *E. & \(\left(\frac{15}{5}\right)^{x}\) \\
\hline *F. & \(3 \cdot 3^{x-1}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(3 \cdot 3^{x-1}\), \\
\\
\\
\(\frac{15^{x}}{5^{x}}\), and \(\left(\frac{15}{5}\right)^{x}\). \\
\hline \hline
\end{tabular} \\
\hline
\end{tabular}

Question 7c of 8 ( 2 Evaluating Exponential Expressions 299672)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(3^{x}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & \(\left(\frac{19}{6}\right)^{x}\) \\
\hline B. & \(\mathrm{X}^{3}\) \\
\hline \hline *C. & \(\frac{18^{x}}{\mathbf{B}^{x}}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline D. & \(3 \cdot 3^{x+1}\) \\
\hline \hline *E. & \(3 \cdot 3^{x-1}\) \\
\hline \hline F. & \(\frac{16^{x}}{.7}\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & \begin{tabular}{l} 
The correct answers are: \(3 \cdot 3^{x-1}\), \\
\\
\\
\hline\(\frac{E^{x}}{3^{\kappa}}\), and \(\left(\frac{18}{6}\right)^{x}\) \\
\hline
\end{tabular} \\
\hline
\end{tabular}

Question 8a of 8 ( 2 Evaluating Exponential Expressions 91844 )
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(9^{\times}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline \hline & Choice \\
\hline \hline *A. & \(99^{x-1}\) \\
\hline \hline *B. & \(\left(\frac{36}{4}\right)^{\times}\) \\
\hline C. & \(99^{x+1}\) \\
\hline \hline D. & \(\frac{36^{x}}{4}\) \\
\hline \hline *E. & \(\frac{36^{x}}{4^{x}}\) \\
\hline F. & \(x^{5}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(9 \bullet 9^{x-1}\), \\
& \(\left(\frac{36}{4}\right)^{x} \quad \frac{36^{x}}{4^{x}}\). \\
\hline
\end{tabular}

Question 8b of 8 ( 2 Evaluating Exponential Expressions 299673)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which expressions are equivalent to the one below? Check all that apply.
\(8^{\text {x }}\)

\section*{Correct Answers:}
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(\mathrm{x}^{4}\) \\
\hline \hline *B. & \(\left(\frac{32}{4}\right)^{x}\) \\
\hline C. & \(8 \cdot 8^{x+1}\) \\
\hline *D. & \(\frac{32^{x}}{4^{x}}\) \\
\hline E. & \(\frac{32^{x}}{4}\) \\
\hline *F. & \(8 \cdot 8^{x-1}\) \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(8 \bullet 8^{x-1}\), \\
& \(\frac{32^{x}}{4^{x}}\), and \(\left(\frac{32}{4}\right)^{x}\). \\
\hline
\end{tabular}

Question 8c of 8(2 Evaluating Exponential Expressions 299674)
Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question

Which expressions are equivalent to the one below? Check all that apply.
\(10^{x}\)

Correct Answers:
\begin{tabular}{|l|l|}
\hline & Choice \\
\hline \hline A. & \(\frac{50^{x}}{5}\) \\
\hline *B. & \(10 \cdot 10^{x-1}\) \\
\hline C. & \(10 \cdot 10^{x+1}\) \\
\hline *D. & \(\frac{50^{x}}{5^{x}}\) \\
\hline *E. & \(\left(\frac{50}{5}\right)^{x}\) \\
\hline F. & \(x^{5}\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answers are: \(10 \bullet 10^{x-1}\), \\
& \(\frac{50^{x}}{5^{x}}\), and \(\left(\frac{50}{5}\right)^{x}\). \\
\hline
\end{tabular}

\section*{Quiz: Solving Exponential Equations}

Question 1a of 15 ( 3 Solving Exponential Equations 91861)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.77
Question: Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\mathrm{e}^{\mathrm{x}}=5.9\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.77. \\
\hline
\end{tabular}

Question 1 b of 15 ( 3 Solving Exponential Equations 300211 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.93
Question: \(\quad\) Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\mathrm{e}^{\mathrm{x}}=6.9\)
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 1.93. \\
\hline
\end{tabular}

Question 1c of 15 ( 3 Solving Exponential Equations 300212 )

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.07
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(e^{x}=7.9\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.07. \\
\hline
\end{tabular}

Question 2a of 15 ( 3 Solving Exponential Equations 91862 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.87
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(e^{x}=6.5\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.87. \\
\hline
\end{tabular}

\section*{Question 2b of 15 (3 Solving Exponential Equations 300213)}

\section*{Maximum Attempts: 1}

Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.7
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and
do not include " \(x=\) " in your answer.
\(e^{x}=5.5\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.70. \\
\hline
\end{tabular}

Question 2c of 15 ( 3 Solving Exponential Equations 300214 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.5
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\mathrm{e}^{\mathrm{x}}=4.5\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.50. \\
\hline
\end{tabular}

Question 3a of 15 ( 3 Solving Exponential Equations 91863)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.02
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3^{x}=9.1999\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.02. \\
\hline
\end{tabular}

Question 3b of 15 ( 3 Solving Exponential Equations 300215 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.6
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(4^{x}=9.1999\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.60. \\
\hline
\end{tabular}

Question 3c of 15 ( 3 Solving Exponential Equations 300218 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.38
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5^{x}=9.1999\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feed back \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & The correct answer is: 1.38.
\end{tabular}

Question 4a of 15 ( 3 Solving Exponential Equations 91864)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.51
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(2^{x}=5.6962\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.51. \\
\hline
\end{tabular}

Question 4b of 15 ( 3 Solving Exponential Equations 300219 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.58
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3^{x}=5.6962\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.58. \\
\hline
\end{tabular}

Question 4c of 15 ( 3 Solving Exponential Equations 300220 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Correct Answer:
Question:

Numeric Fill In Blank
2

\subsection*{1.25}

Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(4^{x}=5.6962\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.25. \\
\hline
\end{tabular}

Question 5a of 15 ( 3 Solving Exponential Equations 91865 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.37
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3 \cdot \mathrm{e}^{\mathrm{x}}=11.76\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.37. \\
\hline
\end{tabular}

Question 5b of 15 ( 3 Solving Exponential Equations 300221 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.16
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.

4 e \(^{\mathrm{x}}=12.76\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.16. \\
\hline
\end{tabular}

Question 5c of 15 ( 3 Solving Exponential Equations 300222 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.15
Question: Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5 \cdot \mathrm{e}^{\mathrm{x}}=15.76\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.15. \\
\hline \hline
\end{tabular}

\section*{Question 6a of 15 ( 3 Solving Exponential Equations 91866)}

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.51
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(4 \cdot 8^{x}=11.48\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\(\square\)
\begin{tabular}{|l|l|}
\hline \hline & \\
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 0.51. \\
\hline
\end{tabular}

Question 6b of 15 ( 3 Solving Exponential Equations 300223 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.42
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5 \cdot 9^{x}=12.48\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.42. \\
\hline
\end{tabular}

Question 6c of 15 ( 3 Solving Exponential Equations 300224 )
Maximum Attempts: 1
\(\begin{array}{ll}\text { Question Type: } & \text { Nu} \\ \text { Maximum Score: } & 2\end{array}\)
Correct Answer: 0.64
Question:
Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3 \cdot 7^{x}=10.48\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.64. \\
\hline
\end{tabular}

Question 7a of 15 (3 Solving Exponential Equations 91867)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.35
Question: Solve the equation for \(x\). Round your answer to two decimal places and enter it below, as an expression (i.e., do not include " \(x=\) " in your answer).
\(7 \cdot e^{x}=27.09\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.35. \\
\hline
\end{tabular}

Question 7 b of 15 ( 3 Solving Exponential Equations 300225 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1.54
Question: Solve the equation for \(x\). Round your answer to two decimal places and enter it below, as an expression (i.e., do not include " \(x=\) " in your answer).
\(6 \cdot \mathrm{e}^{\mathrm{x}}=28.09\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.54. \\
\hline
\end{tabular}

Question 7c of 15 ( 3 Solving Exponential Equations 300226 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank

Maximum Score:
Correct Answer:
Question:
1.79

Solve the equation for \(x\). Round your answer to two decimal places and enter it below, as an expression (i.e., do not include " \(x=\) " in your answer).
\(5 \cdot \mathrm{e}^{\mathrm{x}}=30.09\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\(\square\)
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.79. \\
\hline
\end{tabular}

Question 8a of 15 ( 3 Solving Exponential Equations 91868)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.68
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(8 \cdot 9^{x}=35.68\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.68. \\
\hline
\end{tabular}

Question 8b of 15 ( 3 Solving Exponential Equations 300227 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.78
Question:
0.78

Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(9 \cdot 8^{x}=45.68\)

\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.78. \\
\hline
\end{tabular}

Question 8c of 15 (3 Solving Exponential Equations 300228 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.94
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(7 \cdot 9^{x}=55.68\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.94. \\
\hline \hline
\end{tabular}

Question 9a of 15 ( 3 Solving Exponential Equations 120054 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: \(\quad-0.69\)
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\[
e^{x}=0.5
\]
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\(\square\)
\begin{tabular}{|l|l|}
\hline & \\
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: -0.69. \\
\hline
\end{tabular}

Question 9b of 15 ( 3 Solving Exponential Equations 300229 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: -0.51
Question: Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\mathrm{e}^{\mathrm{x}}=0.6\)
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: -0.51. \\
\hline
\end{tabular}

Question 9c of 15 ( 3 Solving Exponential Equations 300230 )
Maximum Attempts: 1
\(\begin{array}{ll}\text { Question Type: } & \text { N } \\ \text { Maximum Score: } & 2\end{array}\)
Correct Answer: -0.36
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\mathrm{e}^{\mathrm{x}}=0.7\)
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: -0.36. \\
\hline
\end{tabular}

Question 10a of 15 ( 3 Solving Exponential Equations 120055)

\section*{Maximum Attempts: \\ 1}

Question Type:
Maximum Score:
Numeric Fill In Blank

Correct Answer:
2.49

Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5^{x}=55\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 2.49. \\
\hline \hline
\end{tabular}

\section*{Question 10 b of 15 ( 3 Solving Exponential Equations 300231 )}

\section*{Maximum Attempts: 1}

Question Type:
Maximum Score:
Correct Answer:
Question:

Numeric Fill In Blank
2
2.23

Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(7^{x}=77\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.23. \\
\hline
\end{tabular}

Question 10c of 15 ( 3 Solving Exponential Equations 300232 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2

Correct Answer:
2.34

Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\[
6^{x}=66
\]
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.34 \\
\hline
\end{tabular}

Question 11a of 15 (3 Solving Exponential Equations 120056)
Maximum Attempts: 1
Question Type:
Numeric Fill In Blank
Maximum Score:
2
Correct Answer:
Question:
\[
2.64
\]

Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3 \cdot e^{x}=42\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.64. \\
\hline
\end{tabular}

Question 11b of 15 ( 3 Solving Exponential Equations 300233)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.56
Question:
Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(4 \cdot e^{x}=52\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 2.56. \\
\hline \hline
\end{tabular}

Question 11c of 15 ( 3 Solving Exponential Equations 300234 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.52
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5 \cdot e^{x}=62\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.52. \\
\hline
\end{tabular}

Question 12a of 15 ( 3 Solving Exponential Equations 120057)
Maximum Attempts: 1
Question Type:
Numeric Fill In Blank
Maximum Score:
2
Correct Answer:
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(6 \cdot 4^{x}=99\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline
\end{tabular}

\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.02. \\
\hline
\end{tabular}

Question 12b of 15 ( 3 Solving Exponential Equations 300235 )
Maximum Attempts: 1
Question Type:
Numeric Fill In Blank
Maximum Score:
2
Correct Answer:
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(7 \cdot 4^{x}=89\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.83. \\
\hline
\end{tabular}

Question 12c of 15 ( 3 Solving Exponential Equations 300236 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 2.12
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5 \cdot 4^{x}=95\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.12. \\
\hline
\end{tabular}

Question 13a of 15 ( 3 Solving Exponential Equations 120058)

Maximum Attempts: 1
Question Type:
Maximum Score:
Correct Answer:
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(4 e^{2 x}+16=36\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.80. \\
\hline
\end{tabular}

\section*{Question 13 bof 15 ( 3 Solving Exponential Equations 300237 )}

\section*{Maximum Attempts: 1}

Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 0.8
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5 e^{2 x}+16=41\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.80. \\
\hline
\end{tabular}

Question 13c of 15 ( 3 Solving Exponential Equations 300238)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2

Correct Answer:
Question:
0.8

Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3 \mathrm{e}^{2 \mathrm{x}}+16=31\)
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 0.80. \\
\hline
\end{tabular}

Question 14a of 15 ( 3 Solving Exponential Equations 120060 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: simplify
Question: Sometimes you'll need to ____ more complicated exponential equations before using the strategies you learned.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: simplify. \\
\hline
\end{tabular}

Question 14b of 15 (3 Solving Exponential Equations 300239)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: simplify
Question:
Sometimes you'll need to \(\qquad\) more complicated exponential equations before using the strategies you learned.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline
\end{tabular}

\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: simplify. \\
\hline
\end{tabular}

Question 14c of 15 ( 3 Solving Exponential Equations 300240 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score:
2
Is Case Sensitive: false
Correct Answer: simplify
Question: Sometimes you'll need to ____ more complicated exponential equations before using the strategies you learned.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: simplify. \\
\hline
\end{tabular}

Question 15a of 15 ( 3 Solving Exponential Equations 120061)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: a
Question: To solve an equation of the form \(a \cdot b^{x}=d\), you should first divide both sides by the coefficient _____.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline
\end{tabular}
\(\square\)

Question 15b of 15 ( 3 Solving Exponential Equations 300241)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: c
Question:
To solve an equation of the form \(\mathrm{a} \cdot \mathrm{b}^{\mathrm{x}}+\mathrm{c}=\mathrm{d}\), you should first subtract both sides by the constant \(\qquad\) _.
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: c. \\
\hline
\end{tabular}

Question 15c of 15 ( 3 Solving Exponential Equations 300242)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: a
Question: To solve an equation of the form \(a \bullet b^{x}=d\), you should first divide both sides by the coefficient \(\qquad\)
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: a. \\
\hline
\end{tabular}

\section*{Quiz: Solving Logarithmic Equations}

Question 1a of 15 (3 Solving Logarithmic Equations 91907 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 18.38
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{4} x=2.1\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 18.38. \\
\hline
\end{tabular}

Question 1b of 15 ( 3 Solving Logarithmic Equations 300265 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 29.37
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{5} x=2.1\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 29.37. \\
\hline
\end{tabular}

Question 1c of 15 ( 3 Solving Logarithmic Equations 300266 )

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 43.06
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{6} x=2.1\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 43.06. \\
\hline
\end{tabular}

Question 2a of 15 ( 3 Solving Logarithmic Equations 91908 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 12.51
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{3} x=2.3\)
\(\square\)
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 12.51. \\
\hline
\end{tabular}

Question 2 b of 15 ( 3 Solving Logarithmic Equations 300267 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 5.66
Question: Solve the equation for \(x\). Round your answer to two decimal places, and
do not include " \(x=\) " in your answer.
\(\log _{2} x=2.5\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 5.66. \\
\hline
\end{tabular}

Question 2c of 15 ( 3 Solving Logarithmic Equations 300268 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 11.21
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{3} x=2.2\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 11.21. \\
\hline
\end{tabular}

Question 3a of 15 ( 3 Solving Logarithmic Equations 91909)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 134.22-134.29
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=4.9\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 134.29. \\
\hline
\end{tabular}

Question 3b of 15 ( 3 Solving Logarithmic Equations 300269 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer:
Question:
364.81-365.04

Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=5.9\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 365.04. \\
\hline
\end{tabular}

Question 3c of 15 ( 3 Solving Logarithmic Equations 300270 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 991.57-992.27
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=6.9\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & The correct answer is: 992.27.
\end{tabular}

Question 4a of 15 ( 3 Solving Logarithmic Equations 91910)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 60.31-60.34
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=4.1\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 60.34. \\
\hline
\end{tabular}

Question 4b of 15 ( 3 Solving Logarithmic Equations 300272 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 22.19-22.2
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=3.1\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 22.20. \\
\hline
\end{tabular}

Question 4c of 15 ( 3 Solving Logarithmic Equations 300273 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Correct Answer:
Question:

Numeric Fill In Blank
2
8.16-8.17

Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=2.1\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 8.17. \\
\hline
\end{tabular}

Question 5a of 15 ( 3 Solving Logarithmic Equations 91911)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 9.02-9.03
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(15.4=7 \cdot \ln x\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 9.03. \\
\hline
\end{tabular}

Question 5b of 15 ( 3 Solving Logarithmic Equations 300274 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 6.05
Question:
Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(14.4=8 \cdot \ln x\)

\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 6.05. \\
\hline
\end{tabular}

Question 5c of 15 ( 3 Solving Logarithmic Equations 300275 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 9.33
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(13.4=6 \cdot \ln x\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 9.33. \\
\hline \hline
\end{tabular}

Question 6a of 15 ( 3 Solving Logarithmic Equations 91912 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 16.44
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(2 \cdot \ln x=5.6\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\(\square\)
\begin{tabular}{|l|l|}
\hline \hline & \\
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 16.44. \\
\hline
\end{tabular}

Question 6b of 15 ( 3 Solving Logarithmic Equations 300276 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 12.59-12.6
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3 \cdot \ln x=7.6\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 12.60. \\
\hline
\end{tabular}

Question 6c of 15 ( 3 Solving Logarithmic Equations 300277 )
Maximum Attempts: 1
\(\begin{array}{ll}\text { Question Type: } & \text { N } \\ \text { Maximum Score: } & 2\end{array}\)
Correct Answer: 8.58
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(4 \cdot \ln x=8.6\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 8.58. \\
\hline
\end{tabular}

Question 7a of 15 ( 3 Solving Logarithmic Equations 91913 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 13.46
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5+8 \cdot \ln x=25.8\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feed back \\
\hline \hline & The correct answer is: 13.46. \\
\hline
\end{tabular}

Question 7 b of 15 ( 3 Solving Logarithmic Equations 300278 )

\section*{Maximum Attempts: \\ 1}

Question Type: Numeric Fill In Blank
Maximum Score:
2
Correct Answer:
16.92

Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(6+7 \cdot \ln x=25.8\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 16.92. \\
\hline
\end{tabular}

Question 7c of 15 ( 3 Solving Logarithmic Equations 300279 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2

Correct Answer:
Question:
11.27

Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(4+9 \cdot \ln x=25.8\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 11.27. \\
\hline \hline
\end{tabular}

Question 8a of 15 ( 3 Solving Logarithmic Equations 91914 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 13.46
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\[
7+6 \cdot \ln x-22.6=0
\]
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 13.46. \\
\hline
\end{tabular}

Question 8b of 15 ( 3 Solving Logarithmic Equations 300280 )
Maximum Attempts: 1
\(\begin{array}{ll}\text { Question Type: } & \text { N } \\ \text { Maximum Score: } & 2\end{array}\)

\section*{Correct Answer: \\ 10.71}

Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(6+7 \cdot \ln x-22.6=0\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 10.71. \\
\hline \hline
\end{tabular}

Question 8c of 15 ( 3 Solving Logarithmic Equations 300281 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 18.54
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(8+5 \cdot \ln x-22.6=0\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 18.54. \\
\hline
\end{tabular}

Question 9a of 15 ( 3 Solving Logarithmic Equations 120063)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 19.42
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{3} x=2.7\)

\(\square\)
\begin{tabular}{|l|l|}
\hline & \\
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 19.42. \\
\hline
\end{tabular}

Question 9b of 15 ( 3 Solving Logarithmic Equations 300282 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 10.56
Question: \(\quad\) Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{4} \mathrm{x}=1.7\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 10.56. \\
\hline
\end{tabular}

Question 9c of 15 ( 3 Solving Logarithmic Equations 300283 )
Maximum Attempts: 1
\(\begin{array}{ll}\text { Question Type: } & \text { N } \\ \text { Maximum Score: } & 2\end{array}\)

\section*{Correct Answer: \\ 11.18}

Question:
Solve the equation for x . Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{5} \mathrm{x}=1.5\)
\begin{tabular}{|l|l|}
\hline Attempt & Incorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 11.18. \\
\hline
\end{tabular}

Question 10a of 15 ( 3 Solving Logarithmic Equations 120064)

\section*{Maximum Attempts: \\ 1}

Question Type:
Maximum Score:
Correct Answer:
Question:
2

Numeric Fill In Blank
1.22

Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=0.2\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.22. \\
\hline
\end{tabular}

\section*{Question 10 of 15 ( 3 Solving Logarithmic Equations 300284 )}

\section*{Maximum Attempts: \\ 1}

Question Type:
Numeric Fill In Blank
Maximum Score:
2
Correct Answer:
1.35

Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=0.3\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.35. \\
\hline
\end{tabular}

Question 10c of 15 ( 3 Solving Logarithmic Equations 300285 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2

Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\ln x=0.4\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 1.49. \\
\hline
\end{tabular}

Question 11a of 15 ( 3 Solving Logarithmic Equations 120065)
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 148.34-148.41
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3 \cdot \ln x=15\)
\begin{tabular}{|l|l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 148.41. \\
\hline
\end{tabular}

Question 11b of 15 ( 3 Solving Logarithmic Equations 300286 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 403.18-403.43
Question:
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(3 \cdot \ln x=18\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 403.43. \\
\hline \hline
\end{tabular}

Question 11c of 15 ( 3 Solving Logarithmic Equations 300287 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 20.08-20.09
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(7 \cdot \ln x=21\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 20.09. \\
\hline
\end{tabular}

Question 12a of 15 ( 3 Solving Logarithmic Equations 120066)
Maximum Attempts: 1
Question Type:
Numeric Fill In Blank
Maximum Score:
2
Correct Answer:
Question:
2.83

Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(5+6 \cdot \log _{2} x=14\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\(\square\)
\begin{tabular}{|l|l|}
\hline \hline & \\
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.83. \\
\hline
\end{tabular}

Question 12b of 15 ( 3 Solving Logarithmic Equations 300288 )
Maximum Attempts: 1
Question Type:
Numeric Fill In Blank
Maximum Score:
2
Correct Answer:
2.21

Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(6+7 \cdot \log _{2} x=14\)
\begin{tabular}{|l|l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1 st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 2.21. \\
\hline
\end{tabular}

Question 12c of 15 ( 3 Solving Logarithmic Equations 300289 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 5.66
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(4+4 \cdot \log _{2} x=14\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: 5.66. \\
\hline
\end{tabular}

Question 13a of 15 ( 3 Solving Logarithmic Equations 120069)

Maximum Attempts: 1
Question Type:
Maximum Score:
Correct Answer:
Question:
2

Numeric Fill In Blank
\(-2400\)
Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{7}(1-x)=4\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: -2400. \\
\hline
\end{tabular}

Question 13 bof 15 ( 3 Solving Logarithmic Equations 300290 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: -1295
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{6}(1-x)=4\)
\begin{tabular}{|l||l|}
\hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: -1295. \\
\hline
\end{tabular}

Question 13c of 15 ( 3 Solving Logarithmic Equations 300291 )
Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2

Correct Answer:
-342
Question: Solve the equation for \(x\). Round your answer to two decimal places, and do not include " \(x=\) " in your answer.
\(\log _{7}(1-x)=3\)
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: -342. \\
\hline
\end{tabular}

Question 14a of 15 ( 2 Solving Logarithmic Equations 329795 )
Maximum Attempts: 1
Question Type: True-False
Maximum Score: 2
Question:
You can solve an equation of the form \(\log _{b} x=a\) by using the definition of a logarithm to write an equivalent exponential equation.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 14b of 15 ( 2 Solving Logarithmic Equations 329796 )
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
True-False
2
You can solve an equation of the form \(\log _{\mathrm{b}} \mathrm{x}=\mathrm{a}\) by using the definition of a logarithm to write an equivalent exponential equation.
\begin{tabular}{|l|l|l|}
\hline \hline & Choice & Feedback \\
\hline \hline A. & True & \\
\hline B. & False & \\
\hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 14c of 15 ( 2 Solving Logarithmic Equations 329797 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
2

True-False

You can solve an equation of the form \(\log _{b} x=a\) by using the definition of a logarithm to write an equivalent exponential equation.
\begin{tabular}{|l|l|l|}
\hline & Choice & Feedback \\
\hline \hline *A. & True & \\
\hline \hline B. & False & \\
\hline \hline
\end{tabular}

Global I ncorrect Feedback
The correct answer is: True.

Question 15a of 15 ( 2 Solving Logarithmic Equations 120071)
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: a
Question:
Sometimes you'll need to simplify more complicated logarithmic equations before using the strategy you learned. For example, to solve an equation of the form \(\mathrm{a} \cdot \log _{\mathrm{b}} \mathrm{x}=\mathrm{d}\), you should first divide both sides of the equation by the coefficient \(\qquad\) .
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: a. \\
\hline
\end{tabular}

Question 15b of 15 ( 2 Solving Logarithmic Equations 300294 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: c
Question: Sometimes you'll need to simplify more complicated logarithmic
equations before using the strategy you learned. For example, to solve an equation of the form \(c+a * \log _{b} x=d\), you should first subtract both sides of the equation by the constant \(\qquad\) _.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l||l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: c. \\
\hline
\end{tabular}

Question 15c of 15 ( 2 Solving Logarithmic Equations 300295 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2

Is Case Sensitive:
false
Correct Answer:
a
Question:
Sometimes you'll need to simplify more complicated logarithmic equations before using the strategy you learned. For example, to solve an equation of the form \(a-\log _{b} x=d\), you should first divide both sides of the equation by the coefficient \(\qquad\) _.
\begin{tabular}{|l||l|}
\hline \hline Attempt & I ncorrect Feedback \\
\hline \hline 1st & \\
\hline \hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline \hline & Correct Feedback \\
\hline \hline & \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline & Global I ncorrect Feedback \\
\hline \hline & The correct answer is: a. \\
\hline
\end{tabular}```

