## Quiz: Factoring by Graphing (Advanced)

Question 1a of 11 ( 2 What it means for a polynomial to have one root or no roots 90888 )

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
The graph below has:


|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | no linear factors. |  |
| B. | one repeated <br> linear factor. |  |
| C. | two dissimilar <br> linear factors. |  |

Global Incorrect Feedback
The correct answer is: no linear factors.

[^0]|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | no linear factors. |  |
| B. | one repeated <br> linear factor. |  |
| C. | two dissimilar <br> linear factors. |  |

## Global Incorrect Feedback

The correct answer is: no linear factors.

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Question 1c of 11 ( 2 What it means for a polynomial to have one root or no roots 294726 )
```

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
The graph below has:


|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | no linear factors. |  |
| B. | one repeated <br> linear factor. |  |
| C. | two dissimilar <br> linear factors. |  |

Global Incorrect Feedback
The correct answer is: no linear factors.

Question 2a of 11 ( 2 Identifying the roots of a polynomial and their importance 90889 )

Maximum Attempts:
Question Type:
Maximum Score:
Question:

Multiple Choice
2
The graph below has:

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | no linear factors. |  |
| B. | one repeated <br> linear factor. |  |
| *C. | two dissimilar <br> linear factors. |  |

Global Incorrect Feedback
The correct answer is: two dissimilar linear factors.

Question 2b of 11 ( 2 Identifying the roots of a polynomial and their importance 294727)

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
The graph below has:


|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | no linear factors. |  |
| B. | one repeated <br> linear factor. |  |
| $*$ C. | two dissimilar <br> linear factors. |  |

## Global Incorrect Feedback

The correct answer is: two dissimilar linear factors.

Question 2c of $\mathbf{1 1}$ (2 Identifying the roots of a polynomial and their importance 294728)

Maximum Attempts:
Question Type:
Maximum Score:
Question:

Multiple Choice
2
The graph below has:


|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | no linear factors. |  |
| B. | one repeated <br> linear factor. |  |
| *C. | two dissimilar <br> linear factors. |  |

Global Incorrect Feedback
The correct answer is: two dissimilar linear factors.

Question 3a of 11 ( 3 What it means for a polynomial to have one root or no roots 90890 )

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

1
Text Fill In Blank
2
false
$(x-5)^{\wedge} 2,(x-5)(x-5),(1 x-5)^{\wedge} 2,(1 x-5)(1 x-5),\left(x^{\wedge} 1-5\right) \wedge 2,\left(x^{\wedge} 1-5\right)\left(x^{\wedge} 1-5\right),\left(1 x^{\wedge} 1-\right.$
$5)^{\wedge} 2,\left(1 x^{\wedge} 1-5\right)\left(1 x^{\wedge} 1-5\right),(x-5)^{*}(x-5),(1 x-5)^{*}(1 x-5),\left(x^{\wedge} 1-5\right)^{*}\left(x^{\wedge} 1-5\right),\left(1 x^{\wedge} 1-\right.$ 5) ${ }^{\left(1 x^{\wedge} 1-5\right)}$

What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order.

$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x-5)^{2}$. |

Question 3b of 11 ( 3 What it means for a polynomial to have one root or no roots 294729 ) Maximum Attempts: 1

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

1
Text Fill In Blank
2
false
$(x-4) \wedge 2,(x-4)(x-4),(1 x-4)^{\wedge} 2,(1 x-4)(1 x-4),\left(x^{\wedge} 1-4\right) \wedge 2,\left(x^{\wedge} 1-4\right)\left(x^{\wedge} 1-4\right),\left(1 x^{\wedge} 1-\right.$
$4)^{\wedge} 2,\left(1 x^{\wedge} 1-4\right)\left(1 x^{\wedge} 1-4\right),(x-4)^{*}(x-4),(1 x-4)^{*}(1 x-4),\left(x^{\wedge} 1-4\right)^{*}\left(x^{\wedge} 1-4\right),\left(1 x^{\wedge} 1-\right.$ 4)* $\left(1 x^{\wedge} 1-4\right)$

What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order.

$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x-4)^{2}$. |

Question 3c of 11 ( 3 What it means for a polynomial to have one root or no roots 294730 )

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

1
Text Fill In Blank
2
false
$(x-6)^{\wedge} 2,(x-6)(x-6),(1 x-6)^{\wedge} 2,(1 x-6)(1 x-6),\left(x^{\wedge} 1-6\right)^{\wedge} 2,\left(x^{\wedge} 1-6\right)\left(x^{\wedge} 1-6\right),\left(1 x^{\wedge} 1-\right.$ $6)^{\wedge} 2,\left(1 x^{\wedge} 1-6\right)\left(1 x^{\wedge} 1-6\right),(x-6) *(x-6),(1 x-6) *(1 x-6),\left(x^{\wedge} 1-6\right) *\left(x^{\wedge} 1-6\right),\left(1 x^{\wedge} 1-\right.$ $6)^{*}\left(1 x^{\wedge} 1-6\right)$
What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order.

$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x-6)^{2}$. |

Question 4a of 11 ( 3 what it means for a polynomial to have one root or no roots 90891 )

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

Correct Answer:
Question:

## 1

2

Text Fill In Blank
false
$(x-2) \wedge 2,(x-2)(x-2),(1 x-2)^{\wedge} 2,(1 x-2)(1 x-2),\left(x^{\wedge} 1-2\right) \wedge 2,\left(x^{\wedge} 1-2\right)\left(x^{\wedge} 1-2\right),\left(1 x^{\wedge} 1-\right.$
$2)^{\wedge} 2,\left(1 x^{\wedge} 1-2\right)\left(1 x^{\wedge} 1-2\right),(x-2)^{*}(x-2),(1 x-2)^{*}(1 x-2),\left(x^{\wedge} 1-2\right)^{*}\left(x^{\wedge} 1-2\right),\left(1 x^{\wedge} 1-\right.$ 2)*( $\left.1 x^{\wedge} 1-2\right)$

What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order.
$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x-2)^{2}$. |

Question 4b of 11 ( 3 What it means for a polynomial to have one root or no roots 294731 )

| Maximum Attempts: | 1 |
| :---: | :---: |
| Question Type: | Text Fill In Blank |
| Maximum Score: | 2 |
| Is Case Sensitive: | false |
| Correct Answer: | $\begin{aligned} & (x-1)^{\wedge} 2,(x-1)(x-1),(1 x-1)^{\wedge} 2,(1 x-1)(1 x-1),\left(x^{\wedge} 1-1\right)^{\wedge} 2,\left(x^{\wedge} 1-1\right)\left(x^{\wedge} 1-1\right),\left(1 x^{\wedge} 1-\right. \\ & 1)^{\wedge} 2,\left(1 x^{\wedge} 1-1\right)\left(1 x^{\wedge} 1-1\right),(x-1)^{*}(x-1),(1 x-1)^{*}(1 x-1),\left(x^{\wedge} 1-1\right)^{*}\left(x^{\wedge} 1-1\right),\left(1 x^{\wedge} 1-\right. \\ & 1)^{*}\left(1 x^{\wedge} 1-1\right) \end{aligned}$ |
| Question: | What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order. |


$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x-1)^{2}$. |

Question 4c of 11 ( 3 What it means for a polynomial to have one root or no roots 294732 )

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

Correct Answer

Question:
1

2

Text Fill In Blank
false
$(x-3) \wedge 2,(x-3)(x-3),(1 x-3) \wedge 2,(1 x-3)(1 x-3),\left(x^{\wedge} 1-3\right) \wedge 2,\left(x^{\wedge} 1-3\right)\left(x^{\wedge} 1-3\right),\left(1 x^{\wedge} 1-\right.$
$3)^{\wedge} 2,\left(1 x^{\wedge} 1-3\right)\left(1 x^{\wedge} 1-3\right),(x-3)^{*}(x-3),(1 x-3)^{*}(1 x-3),\left(x^{\wedge} 1-3\right)^{*}\left(x^{\wedge} 1-3\right),\left(1 x^{\wedge} 1-\right.$ $3)^{*}\left(1 x^{\wedge} 1-3\right)$
What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order.

$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x-3)^{2}$. |

Question 5a of 11 ( 3 What it means for a polynomial to have one root or no roots 90892 )

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

1
Text Fill In Blank
2
false
$(x+5)^{\wedge} 2,(x+5)(x+5),(1 x+5)^{\wedge} 2,(1 x+5)(1 x+5),\left(x^{\wedge} 1+5\right)^{\wedge} 2,\left(x^{\wedge} 1+5\right)\left(x^{\wedge} 1+5\right)$, $\left(1 x^{\wedge} 1+5\right)^{\wedge} 2,\left(1 x^{\wedge} 1+5\right)\left(1 x^{\wedge} 1+5\right),(x+5)^{*}(x+5),(1 x+5)^{*}(1 x+5)$, $\left(x^{\wedge} 1+5\right)^{*}\left(x^{\wedge} 1+5\right),\left(1 x^{\wedge} 1+5\right)^{*}\left(1 x^{\wedge} 1+5\right)$
What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order. Enter exponents using the caret ( $\wedge$ ). For example, you would enter $4 x^{2}$ as $4 x^{\wedge} 2$.

$$
y=
$$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x+5)^{2}$. |

Question 5b of 11 ( 3 What it means for a polynomial to have one root or no roots 294810 )

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

Correct Answer:

Question:

## 1

2

Text Fill In Blank
false
$(x+6)^{\wedge} 2,(x+6)(x+6),(1 x+6) \wedge 2,(1 x+6)(1 x+6),\left(x^{\wedge} 1+6\right) \wedge 2,\left(x^{\wedge} 1+6\right)\left(x^{\wedge} 1+6\right)$, $\left(1 x^{\wedge} 1+6\right)^{\wedge} 2,\left(1 x^{\wedge} 1+6\right)\left(1 x^{\wedge} 1+6\right),(x+6)^{*}(x+6),(1 x+6)^{*}(1 x+6)$, $\left(x^{\wedge} 1+6\right)^{*}\left(x^{\wedge} 1+6\right),\left(1 x^{\wedge} 1+6\right)^{*}\left(1 x^{\wedge} 1+6\right)$
What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order. Enter exponents using the caret ( ${ }^{\wedge}$ ). For example, you would enter $4 x^{2}$ as $4 x^{\wedge} 2$.

$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x+6)^{2}$. |

Question 5c of 11 ( 3 What it means for a polynomial to have one root or no roots 294811)

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

Correct Answer:

Question:
1

2

Text Fill In Blank
false
$(x+7)^{\wedge} 2,(x+7)(x+7),(1 x+7)^{\wedge} 2,(1 x+7)(1 x+7),\left(x^{\wedge} 1+7\right)^{\wedge} 2,\left(x^{\wedge} 1+7\right)\left(x^{\wedge} 1+7\right)$, $\left(1 x^{\wedge} 1+7\right)^{\wedge} 2,\left(1 x^{\wedge} 1+7\right)\left(1 x^{\wedge} 1+7\right),(x+7)^{*}(x+7),(1 x+7) *(1 x+7)$, $\left(x^{\wedge} 1+7\right)^{*}\left(x^{\wedge} 1+7\right),\left(1 x^{\wedge} 1+7\right)^{*}\left(1 x^{\wedge} 1+7\right)$
What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order. Enter exponents using the caret ( $\wedge$ ). For example, you would enter $4 x^{2}$ as $4 x^{\wedge} 2$.

$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x+7)^{2}$. |

Question 6a of 11 ( 3 what it means for a polynomial to have one root or no roots 90893 )

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

## Correct Answer:

Question:

1
Text Fill In Blank
2
false
$(x+4)^{\wedge} 2,(x+4)(x+4),(1 x+4)^{\wedge} 2,(1 x+4)(1 x+4),\left(x^{\wedge} 1+4\right) \wedge 2,\left(x^{\wedge} 1+4\right)\left(x^{\wedge} 1+4\right)$, $\left(1 x^{\wedge} 1+4\right)^{\wedge} 2,\left(1 x^{\wedge} 1+4\right)\left(1 x^{\wedge} 1+4\right),(x+4)^{*}(x+4),(1 x+4)^{*}(1 x+4)$, $\left(x^{\wedge} 1+4\right)^{*}\left(x^{\wedge} 1+4\right),\left(1 x^{\wedge} 1+4\right)^{*}\left(1 x^{\wedge} 1+4\right)$
What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order. Enter exponents using the caret ( $\wedge$ ). For example, you would enter $4 x^{2}$ as $4 x^{\wedge} 2$.


| $y=$ |  |
| :--- | :--- |
| Attempt | Incorrect Feedback |
| 1st |  |


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x+4)^{2}$. |

Question 6b of 11 ( 3 What it means for a polynomial to have one root or no roots 294812 )

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

Question:
1

2

Text Fill In Blank
false
$(x+3)^{\wedge} 2,(x+3)(x+3),(1 x+3)^{\wedge} 2,(1 x+3)(1 x+3),\left(x^{\wedge} 1+3\right) \wedge 2,\left(x^{\wedge} 1+3\right)\left(x^{\wedge} 1+3\right)$, $\left(1 x^{\wedge} 1+3\right) \wedge 2,\left(1 x^{\wedge} 1+3\right)\left(1 x^{\wedge} 1+3\right),(x+3) *(x+3),(1 x+3) *(1 x+3)$, $\left(x^{\wedge} 1+3\right)^{*}\left(x^{\wedge} 1+3\right),\left(1 x^{\wedge} 1+3\right)^{*}\left(1 x^{\wedge} 1+3\right)$
What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order. Enter exponents using the caret ( $\wedge$ ). For example, you would enter $4 x^{2}$ as $4 x^{\wedge} 2$.

$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x+3)^{2}$. |

Question 6c of 11 ( 3 What it means for a polynomial to have one root or no roots 294813)

Maximum Attempts: 1
$\begin{array}{ll}\text { Question Type: } & \text { T } \\ \text { Maximum Score: } & 2\end{array}$
Is Case Sensitive:

Correct Answer:

Question:
2

Text Fill In Blank
false
$(x+2)^{\wedge} 2,(x+2)(x+2),(1 x+2)^{\wedge} 2,(1 x+2)(1 x+2),\left(x^{\wedge} 1+2\right) \wedge 2,\left(x^{\wedge} 1+2\right)\left(x^{\wedge} 1+2\right)$, $\left(1 x^{\wedge} 1+2\right)^{\wedge} 2,\left(1 x^{\wedge} 1+2\right)\left(1 x^{\wedge} 1+2\right),(x+2)^{*}(x+2),(1 x+2)^{*}(1 x+2)$, $\left(x^{\wedge} 1+2\right)^{*}\left(x^{\wedge} 1+2\right),\left(1 x^{\wedge} 1+2\right)^{*}\left(1 x^{\wedge} 1+2\right)$
What is the factorization of the polynomial graphed below? Assume it has no constant factor. Write each factor as a polynomial in descending order. Enter exponents using the caret ( $\wedge$ ). For example, you would enter $4 x^{2}$ as $4 x^{\wedge} 2$.

$y=$

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $(x+2)^{2}$. |

Question 7 a of 11 ( 3 What it means for a polynomial to have one root or no roots 120535 )

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

1
Text Fill In Blank
2
false
real
Graphs that do not cross or meet the $x$-axis do not have real roots. In other words, they don't have factors of the form of $a x+b$, where $a$ and $b$ are $\qquad$ numbers.

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: real. |

Question 7b of $\mathbf{1 1}$ ( 3 What it means for a polynomial to have one root or no roots 294815 )

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

Text Fill In Blank
false

Graphs that do not cross or meet the $x$-axis do not have real roots. In other words, they don't have factors of the form of $a x+b$, where $a$ and $b$ are $\qquad$ numbers.

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: real. |

Question 7c of 11 ( 3 What it means for a polynomial to have one root or no roots 294816 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: real
Question:
Graphs that do not cross or meet the $x$-axis do not have real roots. In other words, they don't have factors of the form of $a x+b$, where $a$ and $b$ are $\qquad$ numbers.

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: real. |

Question 8a of 11 ( 2 What it means for a polynomial to have one root or no roots 120537 )

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
Which of the following equations does not have real roots?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x^{2}+x-2$ |  |
| B. | $12 x^{2}-17 x-7$ |  |
| *C. | $x^{4}+5 x^{2}+6$ |  |
| D. | $2 x^{4}+13 x^{3}+$ |  |
|  | $21 x^{2}$ |  |$\quad$|  |
| :--- |

Global Incorrect Feedback
The correct answer is: $x^{4}+5 x^{2}+6$.

Question 8b of $\mathbf{1 1}$ (2 What it means for a polynomial to have one root or no roots 294817 )

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

Multiple Choice

Which of the following equations does not have real roots?
$\left.\begin{array}{|l|l|l|}\hline & \text { Choice } & \text { Feedback } \\ \hline \text { A. } & x^{2}+4 x-4 & \\ \hline \text { *B. } & x^{2}+x+7 & \\ \hline \text { C. } & -x^{4}+5 x^{2}+6 & \\ \hline \text { D. } & 2 x^{4}+13 x^{3}+ & \\ \hline 21 x^{2}\end{array}\right]$.

Global Incorrect Feedback
The correct answer is: $x^{2}+x+7$.

Question 8c of 11 ( 2 What it means for a polynomial to have one root or no roots 294818 )

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
Which of the following equations does not have real roots?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | $x^{4}+2 x^{2}+$ <br> 2 |  |
| B. | $x^{2}-17 x-$ <br> 7 |  |
| C. | $-x^{4}+4 x^{2}$ <br> +6 |  |
| D. | $2 x^{2}-13$ |  |

Global Incorrect Feedback
The correct answer is: $x^{4}+2 x^{2}+2$.

Question 9a of 11 ( 3 what it means for a polynomial to have one root or no roots 120539 )

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

1
Numeric Fill In Blank
2
1
How many roots does $y=x^{2}-4 x+4$ have? It may help to graph the equation.

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 1. |

Question 9b of $\mathbf{1 1}$ ( 3 What it means for a polynomial to have one root or no roots 294819 )

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1
Question: How many roots does $y=x^{2}-2 x+1$ have? It may help to graph the equation.

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 1. |

Question 9c of 11 ( 3 what it means for a polynomial to have one root or no roots 294820 )

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 2
Correct Answer: 1
Question:

How many roots does $y=x^{2}-6 x+9$ have? It may help to graph the equation.

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


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


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 1. |

Question 10a of 11 ( 3 Explaining how different polynomials can have the same roots

331393 )
Maximum Attempts:
Question Type:
Maximum Score:
Question:

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

1
True-False 2

The polynomial $y=x^{2}-4 x+4$ has a repeated factor.

Global Incorrect Feedback
The correct answer is: True.

Question 10b of 11 ( 3 Explaining how different polynomials can have the same roots 294838 )

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
True-False
2
The polynomial $y=x^{2}-3 x+9$ has a repeated factor.

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


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

Question 10c of 11 (3 Explaining how different polynomials can have the same roots 294839 )

Maximum Attempts:
Question Type:
Maximum Score:
Question:

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

1
True-False
2
The polynomial $y=x^{2}-8 x+16$ has a repeated factor.

## Global Incorrect Feedback

The correct answer is: True.

Question 11 of 11 ( 2 What it means for a polynomial to have one root or no roots 120541 )

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
What are the factors of the polynomial graphed here?


|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x=-5, x=7$ |  |
| B. | $x=-2, x=1.5$ |  |
| C. | $x=2.2, x=4.1$ |  |
| *D. | It has no linear <br> factors. |  |

Global Incorrect Feedback
The correct answer is: It has no linear factors.

Question 11b of 11 ( 2 What it means for a polynomial to have one root or no roots 294864)

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
What are the factors of the polynomial graphed here?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x=-7, x=5$ |  |
| B. | $x=-3, x=1$ |  |
| C. | $x=8.2, x=4.1$ |  |
| *D. | It has no linear <br> factors. |  |

Global Incorrect Feedback
The correct answer is: It has no linear factors.

Question 11 c of 11 ( 2 What it means for a polynomial to have one root or no roots 294865)
Maximum Attempts:
Question Type:
Maximum Score:
Question:

```
1
Multiple Choice
2
What are the factors of the polynomial graphed here?
```

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x=-2, x=10$ |  |
| B. | $x=-5, x=1.5$ |  |
| C. | $x=7.2, x=4.1$ |  |
| *D. | It has no linear <br> factors. |  |


[^0]:    Question 1 b of 11 ( 2 What it means for a polynomial to have one root or no roots 294725 )

    Maximum Attempts:
    Question Type:
    Maximum Score:
    Question:

    1
    Multiple Choice
    2
    The graph below has:

