Quiz: Factoring a Difference of Squares

**Question 1a of 15**

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: False

Correct Answer: 

$$\begin{align*}
(x+7)(x-7), & \quad (x-7)(x+7), \\
(1x+7)(1x-7), & \quad (x-7)^2, \\
(1x+7)^2, & \quad (1x-7)^2
\end{align*}$$

Question:

Factor the expression given below. Write each factor as a polynomial in descending order.

$$x^2 - 49$$

**Attempt 1 Incorrect Feedback**

**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: $$(x + 7)(x - 7)$$. 

---

**Question 1b of 15**

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2

Is Case Sensitive: False

Correct Answer: 

$$\begin{align*}
(x+8)(x-8), & \quad (x-8)(x+8), \\
(1x+8)(1x-8), & \quad (x-8)^2, \\
(1x+8)^2, & \quad (1x-8)^2
\end{align*}$$

Question:

Factor the expression given below. Write each factor as a polynomial in descending order.

$$x^2 - 64$$

**Attempt 1 Incorrect Feedback**

**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: $$(x + 8)(x - 8)$$. 
Question 1c of 15 (3 Factoring A Difference of Squares 297342)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: true
Correct Answer: 

(x+9)(x-9), (x-9)(x+9), (x^1+9)(x^1-9), (x^1-9)(x^1+9), (x^1+9)(x^1-9), (x^1-9)*1x+9), (x^1+9)*1x-9), (x^1-9)*1x+9), (x^1+9)*1x-9)

Question:
Factor the expression given below. Write each factor as a polynomial in descending order.

\(x^2 - 81\)

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

Correct Feedback

Global Incorrect Feedback

The correct answer is: \((x + 9)(x - 9)\).

Question 2a of 15 (3 Factoring A Difference of Squares 90865)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: true
Correct Answer: 

(x+3)(x-3), (x-3)(x+3), (x^1+3)(x^1-3), (x^1-3)(x^1+3), (x^1+3)(x^1-3), (x^1-3)*1x+3), (x^1+3)*1x-3)

Question:
Factor the expression given below. Write each factor as a polynomial in descending order.

\(x^2 - 9\)

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

Correct Feedback

Global Incorrect Feedback

The correct answer is: \((x + 3)(x - 3)\).

Question 2b of 15 (3 Factoring A Difference of Squares 297343)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: true
Correct Answer: 

(x^4)(x^4), (x^4)(x^4), (x^4+1)(x^4-1), (x^4-1)(x^4+1), (x^4+1)(x^4-1), (x^4-1)*1x+1), (x^4+1)*1x-1)

Question:
Factor the expression given below. Write each factor as a polynomial in descending order.

\(x^2 - 16\)
Question 2c of 15 (3 Factoring A Difference of Squares 297344)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 

The correct answer is: \((x^2 + 2)(x^2 - 2)\).

Question 3a of 15 (3 Factoring A Difference of Squares 90866)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 

The correct answer is: \((2x + 1)(2x - 1)\).
**Question 3b of 15 (3 Factoring A Difference of Squares 297345)**

Maximum Attempts: 1  
Question Type: Text Fill In Blank  
Maximum Score: 2  
Is Case Sensitive: False  
Correct Answer: (3x+1)(3x-1), (3x-1)(3x+1), (3x+1)(3x-1), (3x-1)(3x+1), (3x^1+1)(3x^1-1), (3x^1-1)(3x^1+1), (3x^1-1)(3x^1+1), (3x^1+1)(3x^1-1)  

**Question:** Factor the expression given below. **Write each factor as a polynomial in descending order.**

9x^2 - 1

**Attempt** | **Incorrect Feedback**  
--- | ---  
1st |  

**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: (3x + 1)(3x - 1).

---

**Question 3c of 15 (3 Factoring A Difference of Squares 297346)**

Maximum Attempts: 1  
Question Type: Text Fill In Blank  
Maximum Score: 2  
Is Case Sensitive: False  
Correct Answer: (4x+1)(4x-1), (4x-1)(4x+1), (4x+1)(4x-1), (4x-1)(4x+1), (4x^1+1)(4x^1-1), (4x^1-1)(4x^1+1), (4x^1-1)(4x^1+1), (4x^1+1)(4x^1-1)  

**Question:** Factor the expression given below. **Write each factor as a polynomial in descending order.**

16x^2 - 1

**Attempt** | **Incorrect Feedback**  
--- | ---  
1st |  

**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: (4x + 1)(4x - 1).
Question 4a of 15  ( 3 Factoring A Difference of Squares 90867 )

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false

Correct Answer:
(9x+6)(9x-6), (9x-6)(9x+6), (9x-6)*(9x+6), (9x+6)*(9x-6), (9x^1-6)(9x^1+6), (9x^1+6)(9x^1-6), (9x^1+6)*(9x^1-6), (9x^1-6)*(9x^1+6), (9x^1-6)(9x^1+6), (9x-2)(9x+2), (9x+2)(9x-2), (9x^1-2)(9x^1+2), (9x^1+2)(9x^1-2), (9x^1+2)*(9x^1-2), (9x^1-2)*(9x^1+2), (9x^1+2)*(9x^1-2)

Question:
Factor the expression given below. Write each factor as a polynomial in descending order.

81x^2 - 36

Question 4b of 15  ( 3 Factoring A Difference of Squares 297347 )

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false

Correct Answer:
(8x+6)(8x-6), (8x-6)(8x+6), (8x-6)*(8x+6), (8x+6)*(8x-6), (8x^1-6)(8x^1+6), (8x^1+6)(8x^1-6), (8x^1-6)*(8x^1+6), (8x^1+6)*(8x^1-6), (4x+3)(4x-3), (4x-3)(4x+3), (4x^1+3)(4x^1-3), (4x^1+3)*(4x^1-3), (4x^1-3)*(4x^1+3)

Question:
Factor the expression given below. Write each factor as a polynomial in descending order.

64x^2 - 36
Question 4c of 15 (3 Factoring A Difference of Squares 297348)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer:

The correct answer is: 

(12x + 6)(12x - 6) .

Question 5a of 15 (3 Factoring A Difference of Squares 90868)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer:

The correct answer is: 

(8A + B)(8A - B) .


Question 5b of 15 (3 Factoring A Difference of Squares 297349)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 
(7A+B)(7A-B), (7A-B)(7A+B), (7A-B)*(7A+B), (7A+B)*(7A-B), (-B+7A)(B+7A), (B+7A)(-B+7A), (-B+7A)*(B+7A), (B+7A)*(-B+7A)

Question: Factor the expression given below. Write each factor as a polynomial in descending order.

\[49A^2 - B^2\]

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

Correct Feedback

Global Incorrect Feedback

The correct answer is: \((7A + B)(7A - B)\).

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Question 5c of 15 (3 Factoring A Difference of Squares 297350)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 

Question: Factor the expression given below. Write each factor as a polynomial in descending order.

\[81A^2 - B^2\]

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

Correct Feedback

Global Incorrect Feedback

The correct answer is: \((9A + B)(9A - B)\).

---

Question 6a of 15 (3 Factoring A Difference of Squares 90869)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 
(6A+5B)(6A-5B), (6A-5B)(6A+5B), (6A-5B)*(6A+5B), (6A+5B)*(6A-5B), (-5B+6A)(5B+6A), (5B+6A)(-5B+6A), (-5B+6A)*(5B+6A), (5B+6A)*(-5B+6A)

Question: Factor the expression given below. Write each factor as a polynomial in descending order.

\[36A^2 - 25B^2\]

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

Correct Feedback

Global Incorrect Feedback

The correct answer is: \((6A^2 - 5B^2)\).
### Question 6b of 15 (3 Factoring A Difference of Squares 297351)

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<td>Correct Answer:</td>
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(7A-5B)(7A+5B), (7A+5B)(7A-5B), (7A-5B)*(7A+5B), (7A+5B)*(7A-5B), (-5B+7A)(5B+7A), (5B+7A)(-5B+7A), (-5B+7A)*(5B+7A), (5B+7A)*(-5B+7A) |

**Question:** Factor the expression given below. Write each factor as a polynomial in descending order.

\[49A^2 - 25B^2\]

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| Correct Feedback |

| Global Incorrect Feedback |

The correct answer is: \((7A - 5B)(7A + 5B)\).

### Question 6c of 15 (3 Factoring A Difference of Squares 297352)

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<td>Correct Answer:</td>
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(6A+7B)(6A-7B), (6A-7B)(6A+7B), (6A-7B)*(6A+7B), (6A+7B)*(6A-7B), (-7B+6A)(7B+6A), (7B+6A)(-7B+6A), (-7B+6A)*(7B+6A), (7B+6A)*(-7B+6A) |

**Question:** Factor the expression given below. Write each factor as a polynomial in descending order.

\[36A^2 - 49B^2\]

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| Correct Feedback |

| Global Incorrect Feedback |

The correct answer is: \((6A + 7B)(6A - 7B)\).
### Question 7a of 15

**Correct Answer:** $(3x + yz)(3x - yz), (3x-yz)(3x+yz), (3x+yz)(3x-yz), (-yz+3x)(yz+3x), (yz+3x)(-yz+3x), (3x-zy)(3x+zy), (3x+zy)(3x-zy), (3x-zy)*(-3x+zy), (3x+zy)*(-3x-zy), (-zy+3x)(zy+3x), (zy+3x)(-zy+3x), (-zy+3x)*(-zy-3x), (zy+3x)*(-zy-3x)$

**Question:** Factor the expression given below. Write each factor as a polynomial in descending order.

$$9x^2 - y^2 z^2$$

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**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: $(3x + yz)(3x - yz)$.

### Question 7b of 15

**Correct Answer:** $(4x + yz)(4x - yz), (4x-yz)(4x+yz), (4x-zy)(4x+zy), (4x+zy)(4x-zy), (-yz+4x)(yz+4x), (yz+4x)(-yz+4x), (4x-zy)(4x+zy), (4x+zy)(4x-zy), (4x-zy)*(-4x+zy), (4x+zy)*(-4x-zy), (-zy+4x)(zy+4x), (zy+4x)(-zy+4x), (-zy+4x)*(-4x+zy), (zy+4x)*(-4x-zy)$

**Question:** Factor the expression given below. Write each factor as a polynomial in descending order.

$$16x^2 - y^2 z^2$$

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**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: $(4x + yz)(4x - yz)$.

### Question 7c of 15

**Correct Answer:** $(2x + yz)(2x - yz), (2x-yz)(2x+yz), (2x-zy)(2x+yz), (2x+zy)(2x-yz), (-yz+2x)(yz+2x), (yz+2x)(-yz+2x), (-yz+2x)*(-2x+2x), (yz+2x)*(-2x-2x), (2x-zy)(2x+zy), (2x+zy)(2x-zy), (2x-zy)*(-2x+zy), (2x+zy)*(-2x-zy), (-zy+2x)(zy+2x), (zy+2x)(-zy+2x), (-zy+2x)*(-zy+2x), (zy+2x)*(-zy-2x)$

**Question:** Factor the expression given below. Write each factor as a polynomial in descending order.

$$4x^2 - y^2 z^2$$

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**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: $(2x + yz)(2x - yz)$.
The correct answer is: \((2x + yz)(2x - yz)\).
Factor the expression given below. Write each factor as a polynomial in descending order.

\[ 64w^2x^2 - 36y^2z^2 \]

**Question:**

Factor the expression given below. Write each factor as a polynomial in descending order.

\[ 64w^2x^2 - 36y^2z^2 \]

**Attempt**

**Incorrect Feedback**

**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: \((8wx + 6yz)(8wx - 6yz)\).
Question: Factor the expression given below. Write each factor as a polynomial in descending order.

\[100w^2x^2 - 36y^2z^2\]

Correct Answer: 

\[(10wx + 6yz)(10wx - 6yz), (10wx - 6yz)(10wx + 6yz),\]

\[100w^2x^2 - 36y^2z^2 = (10wx + 6yz)(10wx - 6yz).\]
Correct Answer:

(-8yz + 10xw) * (8yz + 10xw), (8yz + 10xw) * (-8yz + 10xw), 4(5xw + 4yz) * (5xw - 4yz), 4(5xw + 4yz) * (5xw + 4yz), 4(5xw + 4yz) * (5xw + 4yz), 4(5xw + 4yz) * (5xw + 4yz), 4(5xw + 4yz) * (5xw + 4yz), 4(5xw + 4yz) * (5xw + 4yz), 

(-4yz + 5xw) * (4yz + 5xw), (4yz + 5xw) * (-4yz + 5xw), (4yz + 5xw) * (-4yz + 5xw), (4yz + 5xw) * (-4yz + 5xw), 

### Question 9a of 15 (1 Factoring A Difference of Squares 120853)

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:** difference, difference, differense, diferense, differs, diferens  

**Question:** A _____ of two squares is an expression that contains two perfect squares, with one subtracted from the other.

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**Global Incorrect Feedback:** The correct answer is: difference.

### Question 9b of 15 (1 Factoring A Difference of Squares 297357)

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:** perfect, prefect  

**Question:** A difference of two squares is an expression that contains two _____ squares, with one subtracted from the other.

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**Global Incorrect Feedback:** The correct answer is: perfect.
**Question 9c of 15**  (1 Factoring A Difference of Squares 297359)

Maximum Attempts: 1  
Question Type: Text Fill In Blank  
Maximum Score: 2  
Is Case Sensitive: false  
Correct Answer: squares, squares, squares  
Question: A difference of two _____ is an expression that contains two perfect squares, with one subtracted from the other.

**Attempt** | Incorrect Feedback  
---|---
1st |  

Correct Feedback  

Global Incorrect Feedback  
The correct answer is: squares.

---

**Question 10a of 15**  (1 Factoring A Difference of Squares 120855)

Maximum Attempts: 1  
Question Type: Text Fill In Blank  
Maximum Score: 2  
Is Case Sensitive: false  
Correct Answer: \[(x+b)(x-b), (x-b)(x+b), (1x+b)(1x-b), (1x-b)(1x+b), (x+b)(x-b), (x-b)(x+b), \\
(1x+b)*(1x-b), (1x-b)*(1x+b), (x^1+b)(x^1-b), (x^1-b)(x^1+b), \\
(1x^1+b)(1x^1-b), (1x^1-b)(1x^1+b), (x^1+b)*(x^1-b), (x^1-b)*(x^1+b), \\
(1x^1+b)*(1x^1-b), (1x^1-b)*(1x^1+b), (b+x)(-b+x), (-b+x)(b+x), (b+1x)(-b+1x), \\
(-b+1x)(b+1x), (b+x^1)(-b+x^1), (-b+x^1)(b+x^1), (b+1x^1)(-b+1x^1), \\
(-b+1x^1)(b+1x^1), (b+x^1)*(-b+x^1), (-b+x^1)*(-b+x^1), (b+1x^1)*(-b+1x^1), \\
(-b+1x^1)*(-b+1x^1)\]

Question: For any number b, the polynomial \(x^2 - b^2\) can be factored as _____.

**Attempt** | Incorrect Feedback  
---|---
1st |  

Correct Feedback  

Global Incorrect Feedback  
The correct answer is: \((x + b)(x - b)\).

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**Question 10b of 15**  (1 Factoring A Difference of Squares 297360)

Maximum Attempts: 1  
Question Type: Text Fill In Blank  
Maximum Score: 2  
Is Case Sensitive: false  
Correct Answer: \[(x+a)(x-a), (x-a)(x+a), (1x+a)(1x-a), (1x-a)(1x+a), (x+a)*(x-a), (x-a)*(x+a), \\
(1x+a)*(1x-a), (1x-a)*(1x+a), (x^1+a)(x^1-a), (x^1-a)(x^1+a), \\
(1x^1+a)(1x^1-a), (1x^1-a)(1x^1+a), (x^1+a)*(x^1-a), (x^1-a)*(x^1+a), \\
(1x^1+a)*(1x^1-a), (1x^1-a)*(1x^1+a), (a+x)(-a+x), (-a+x)(a+x), (a+1x)(-a+1x), \\
(-a+1x)(a+1x), (a+x^1)(-a+x^1), (-a+x^1)(a+x^1), (a+1x^1)(-a+1x^1), \\
(-a+1x^1)(a+1x^1), (a+x^1)*(a-x^1), (a-x^1)*(a+x^1), (a+1x^1)*(a-x^1), \\
(a-x^1)*(a+1x^1)\]

Question: For any number a, the polynomial \(x^2 - a^2\) can be factored as _____.

**Attempt** | Incorrect Feedback  
---|---
1st |  

Correct Feedback  

Global Incorrect Feedback  
The correct answer is: \((x + a)(x - a)\).
Question 10c of 15 (1 Factoring A Difference of Squares 297361)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false

Correct Answer:
\[(x+c)(x-c), (x-c)(x+c), (1x+c)(1x-c), (1x-c)(1x+c), (x^1+c)(x^1-c), (1x^1+c)(1x^1-c), (1x^1-c)(1x^1+c), (x^1+c)(x^1-c), (x^1-c)(x^1+c), (1x^1+c)(1x^1-c), (1x^1-c)(1x^1+c), (c+x)(-c+x), (-c+x)(c+x), (c+1x)(-c+1x), (1x+1x)(-c+1x), (1x+1x)(1x-c), (1x^1+c)(1x^1-c), (1x^1-c)(1x^1+c), (c+1x^1)(-c+1x^1), (c+1x^1)(1x-c), (1x^1+c)(1x^1-c), (1x^1-c)(1x^1+c), (c+1x^1)(-c+1x^1), (c+1x^1)(1x-c)
\]

Question: For any number \(c\), the polynomial \(x^2 - c^2\) can be factored as _____.

Question 11a of 15 (3 Factoring A Difference of Squares 120856)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false

Correct Answer:
\[(x+10)(x-10), (x-10)(x+10), (1x+10)(1x-10), (1x-10)(1x+10), (x^1+10)(x^1-10), (x^1-10)(x^1+10), (x^1+10)(x^1-10), (1x^1+10)(1x^1-10), (1x^1-10)(1x^1+10), (x^1+10)(x^1-10), (x^1-10)(x^1+10), (1x^1+10)(1x^1-10), (1x^1-10)(1x^1+10)
\]

Question: Factor the expression given below. Write each factor as a polynomial in descending order.
\[x^2 - 100\]
### Question 11b of 15 (3 Factoring A Difference of Squares 297362)

**MaximumAttempts:** 1

**QuestionType:** Text Fill In Blank

**MaximumScore:** 2

**IsCaseSensitive:** false

**CorrectAnswer:**

\( (x+11)(x-11), (x-11)(x+11), (1x+11)(1x-11), (1x-11)(1x+11), (x+11)*(x-11), \\
(x-11)*(x+11), (1x+11)*(1x-11), (1x-11)*(1x+11), (x^1+11)(x^1-11), (x^1-11)(x^1+11), (x^1+11)*(x^1-11) \)

**Question:**

Factor the expression given below. Write each factor as a polynomial in descending order.

\( x^2 - 121 \)

**Attempt** | **Incorrect Feedback**  
--- | ---  
1st |  

**Correct Feedback**

**GlobalIncorrectFeedback**

The correct answer is: \((x + 11)(x - 11)\).

### Question 11c of 15 (3 Factoring A Difference of Squares 297363)

**MaximumAttempts:** 1

**QuestionType:** Text Fill In Blank

**MaximumScore:** 2

**IsCaseSensitive:** false

**CorrectAnswer:**

\( (x+12)(x-12), (x-12)(x+12), (1x+12)(1x-12), (1x-12)(1x+12), (x+12)*(x-12), \\
(x-12)*(x+12), (1x+12)*(1x-12), (1x-12)*(1x+12), (x^1+12)(x^1-12), (x^1-12)(x^1+12), (x^1+12)*(x^1-12), \\
(x^1-12)*(x^1+12) \)

**Question:**

Factor the expression given below. Write each factor as a polynomial in descending order.

\( x^2 - 144 \)

**Attempt** | **Incorrect Feedback**  
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1st |  

**Correct Feedback**

**GlobalIncorrectFeedback**

The correct answer is: \((x + 12)(x - 12)\).

### Question 12a of 15 (3 Factoring A Difference of Squares 120858)

**MaximumAttempts:** 1

**QuestionType:** Text Fill In Blank

**MaximumScore:** 2

**IsCaseSensitive:** false

**CorrectAnswer:**

\( (5x+6)(5x-6), (5x-6)(5x+6), (5x+6)*(5x-6), (5x-6)*(5x+6), (5x^1+6)(5x^1-6), \\
(5x^1-6)(5x^1+6), (5x^1+6)*(5x^1-6), (5x^1-6)*(5x^1+6) \)

**Question:**

Factor the expression given below. Write each factor as a polynomial in descending order.

\( 25x^2 - 36 \)
Question 12b of 15 ( 3 Factoring A Difference of Squares 297364 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 
(5x+7)(5x-7), (5x-7)(5x+7), (5x+7)*(5x-7), (5x-7)*(5x+7), 
(5x^1+7)(5x^1-7), (5x^1-7)(5x^1+7), (5x^1+7)*(5x^1-7), (5x^1-7)*(5x^1+7)

Question: Factor the expression given below. Write each factor as a polynomial in descending order.

25x^2 - 49

Question 12c of 15 ( 3 Factoring A Difference of Squares 297365 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 
(6x+7)(6x-7), (6x-7)(6x+7), (6x+7)*(6x-7), (6x-7)*(6x+7), 
(6x^1+7)(6x^1-7), (6x^1-7)(6x^1+7), (6x^1+7)*(6x^1-7), (6x^1-7)*(6x^1+7)

Question: Factor the expression given below. Write each factor as a polynomial in descending order.

36x^2 - 49
### Question 13a of 15

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:** 2AB  
**Question:** If the perfect square terms are $A^2$ and $B^2$, then the other term must be ____.  

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**Correct Feedback**

**Global Incorrect Feedback**  
The correct answer is: 2AB.

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### Question 13b of 15

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:** 2AB  
**Question:** If the perfect square terms are $A^2$ and $B^2$, then the other term must be ____.  

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**Correct Feedback**

**Global Incorrect Feedback**  
The correct answer is: 2AB.

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### Question 13c of 15

**Maximum Attempts:** 1  
**Question Type:** Text Fill In Blank  
**Maximum Score:** 2  
**Is Case Sensitive:** false  
**Correct Answer:** 2AB  
**Question:** If the perfect square terms are $A^2$ and $B^2$, then the other term must be ____.  

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**Correct Feedback**

**Global Incorrect Feedback**  
The correct answer is: 2AB.
Question 14a of 15 (3 Factoring A Perfect Square 120862)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: (x-6)^2, (x-6)(x-6), (x^1-6)^2, (x^1-6)(x^1-6), (x-6)*(x-6), (x^1-6)*(x^1-6), (1x-6)^2, (1x-6)(1x-6), (1x^1-6)^2, (1x^1-6)(1x^1-6), (1x-6)*(1x-6), (1x^1-6)*(1x^1-6)

Question: Factor the expression given below. Write each factor as a polynomial in descending order. Enter exponents using the caret (^). For example, you would enter x^2 as x^2.

\[ x^2 - 12x + 36 \]

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

Correct Feedback

Global Incorrect Feedback

The correct answer is: \((x - 6)^2\).

Question 14b of 15 (3 Factoring A Perfect Square 297368)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: (x-5)^2, (x-5)(x-5), (x^1-5)^2, (x^1-5)(x^1-5), (x-5)*(x-5), (x^1-5)*(x^1-5), (1x-5)^2, (1x-5)(1x-5), (1x^1-5)^2, (1x^1-5)(1x^1-5), (1x-5)*(1x-5), (1x^1-5)*(1x^1-5)

Question: Factor the expression given below. Write each factor as a polynomial in descending order. Enter exponents using the caret (^). For example, you would enter x^2 as x^2.

\[ x^2 - 10x + 25 \]

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

Correct Feedback

Global Incorrect Feedback

The correct answer is: \((x - 5)^2\).

Question 14c of 15 (3 Factoring A Perfect Square 297369)

Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: (x-4)^2, (x-4)(x-4), (x^1-4)^2, (x^1-4)(x^1-4), (x-4)*(x-4), (x^1-4)*(x^1-4), (1x-4)^2, (1x-4)(1x-4), (1x^1-4)^2, (1x^1-4)(1x^1-4), (1x-4)*(1x-4), (1x^1-4)*(1x^1-4)

Question: Factor the expression given below. Write each factor as a polynomial in descending order. Enter exponents using the caret (^). For example, you would enter x^2 as x^2.

\[ x^2 - 8x + 16 \]
**Question 15a of 15** (3 Factoring A Perfect Square 120868)

Maximum Attempts: 1  
Question Type: Text Fill In Blank  
Maximum Score: 2  
Is Case Sensitive: false  
Correct Answer: 

\[(3x+5)^2, (3x+5)(3x+5), (3x^1+5)^2, (3x^1+5)(3x^1+5), (3x+5)*(3x+5), (3x^1+5)*(3x^1+5)\]

Question: Factor the expression given below. Write each factor as a polynomial in descending order. Enter exponents using the caret (\(^\)). For example, you would enter \(x^2\) as \(x^2\).  

\[9x^2 + 30x + 25\]

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Correct Feedback

Global Incorrect Feedback

The correct answer is: \((3x + 5)^2\).

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**Question 15b of 15** (3 Factoring A Perfect Square 297370)

Maximum Attempts: 1  
Question Type: Text Fill In Blank  
Maximum Score: 2  
Is Case Sensitive: false  
Correct Answer: 

\[(4x+5)^2, (4x+5)(4x+5), (4x^1+5)^2, (4x^1+5)(4x^1+5), (4x+5)*(4x+5), (4x^1+5)*(4x^1+5)\]

Question: Factor the expression given below. Write each factor as a polynomial in descending order. Enter exponents using the caret (\(^\)). For example, you would enter \(x^2\) as \(x^2\).  

\[16x^2 + 40x + 25\]

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Correct Feedback

Global Incorrect Feedback

The correct answer is: \((4x + 5)^2\).
**Question 15c of 15** (3 Factoring A Perfect Square 297371)

**Maximum Attempts:** 1

**Question Type:** Text Fill In Blank

**Maximum Score:** 2

**Is Case Sensitive:** false

**Correct Answer:**

\[(3x+4)^2, (3x+4)(3x+4), (3x^1+4)^2, (3x^1+4)(3x^1+4), (3x+4)*(3x+4), (3x^1+4)*(3x^1+4)\]

**Question:**

Factor the expression given below. **Write each factor as a polynomial in descending order.** Enter exponents using the caret (\(^\)). For example, you would enter \(x^2\) as \(x^2\).

\[9x^2 + 24x + 16\]

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**Correct Feedback**

**Global Incorrect Feedback**

The correct answer is: \((3x + 4)^2\).