

Unit 5 Part 1

Lesson 1

Factoring GCF

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1. $2(3x^2 - 4x + 6)$

$6x^2 - 8x + 12$

2. $3x(x - 8)$

$3x^2 - 24x$

3. $-4x(2x^2 - 3x + 4)$

$-8x^3 + 12x^2 - 16x$

4. $2x^2y(3xy - 5x^2y^3 + x^4y)$

$6x^3y^2 - 10x^4y^4 + 2x^6y^2$

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➤ Factor completely using the Greatest Common Factor (GCF)

1. $4x - 6y$ ✓

$$2(2x - 3y)$$

$$4x - 6y$$

2. $3x^2 + 12x$ ✓

$$3x(x + 4)$$

$$3x^2 + 12x$$

3. $24x^2y - 18xy^3$ ✓

$$6xy(4x - 3y^2)$$

$$24x^2y - 18xy^3$$

4. $2x^3yz^3 - 7xy^5z^2$ ✓

$$xyz^2(2x^2z - 7y^4)$$

$$2x^3yz^3 - 7xy^5z^2$$

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5. $5x^2y - 20xy^2z + 35y^3z^2$

$$5y(x^2 - 4xyz + 7y^2z^2)$$

6. $2x^3y - x^2y + 5xy^2 + xy^3$

$$xy(2x^2 - x + 5y + y^2)$$

7. $9x^3y^5 - 15x^2y^3 - 12xy^4$

$$3xy^3(3x^2y^2 - 5x - 4y)$$

8. $8x^3 + 12x^2 - 2x$

$$2x(4x^2 + 6x - 1)$$

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1. $5x + 15$

2. $x^2 + 3x$

3. $a^2b + 2ab$

4. $3x^6 - 5x^3 + 2x^2$

5. $25y^4 - 20y^3$

6. $6h^2 - 8h$

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$$7. 18c^4 - 9c^2 + 27c$$

$$9c(2c^3 - 1c + 3)$$

$$8. 15x^3y^5 - 10x^2y^6 + 20x^5y^3$$

$$5x^2y^3(3xy^2 - 2y^3 + 4x^3)$$

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