

# Factoring out Greatest Monomial

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Factor each completely.

$9x^2 - 36x$

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$2x^2 + 6xy$

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$5p^2q + 10q$

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$5x^2 + x$

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$5x^2 - 25xy$

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$10x^2 + 20x$

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$12x^2y^2 + 32xy^3$

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$-10x^2 + 60x$

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$3x^2 + 27x$

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$5x - 35$

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$8x^5 - 20x^4 - 12x^2$

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$2x^2 + 6xy$

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$5x^5y - 40x$

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$nx^2 + 3nxy$

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

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# Factoring out Greatest Monomial

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## Answers

$$9x^2 - 36x$$

$$2x^2 + 6xy$$

$$5p^2q + 10q$$

$$\underline{9x(x - 4)}$$

$$\underline{2x(x + 3y)}$$

$$\underline{5q(p^2 + 2)}$$

$$5x^2 + x$$

$$5x^2 - 25xy$$

$$10x^2 + 20x$$

$$\underline{x(5x + 1)}$$

$$\underline{5x(x - 5y)}$$

$$\underline{10x(x + 2)}$$

$$12x^2y^2 + 32xy^3$$

$$-10x^2 + 60x$$

$$3x^2 + 27x$$

$$\underline{4xy^2(3x + 8y)}$$

$$\underline{-10x(x - 6)}$$

$$\underline{3x(x + 9)}$$

$$5x - 35$$

$$8x^5 - 20x^4 - 12x^2$$

$$2x^2 + 6xy$$

$$\underline{5(x - 7)}$$

$$\underline{4x^2(2x^3 - 5x^2 - 3)}$$

$$\underline{2x(x + 3y)}$$

$$5x^5y - 40x$$

$$nx^2 + 3nxy$$

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

$$\underline{5x(x^4y - 8)}$$

$$\underline{nx(x + 3y)}$$

$$\underline{2x(3x^3 - 5x^2 + 1)}$$