

# Rational Expressions

Simplify

$$\boxed{1} \quad \frac{4x^3 - 6x^2}{2x}$$

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$$\boxed{2} \quad \frac{2x + 4}{x^2 + 5x + 6}$$

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$$\boxed{3} \quad \frac{4x + 8}{x^2 - 25} \cdot \frac{x - 5}{5x + 10}$$

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$$\boxed{4} \quad \frac{6x^2 - 19x + 3}{4x^2 - 36}$$

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$$\boxed{5} \quad \frac{x^2 - 2x - 3}{x^2 + 6x + 5}$$

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$$\boxed{6} \quad \frac{x^2 - 8x + 12}{x^2 - 16} \cdot \frac{4x + 16}{x^2 - 4x + 4}$$

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# Rational Expressions

## Answers

$$\boxed{1} \quad \frac{4x^3 - 6x^2}{2x}$$

$$\boxed{2} \quad \frac{2x + 4}{x^2 + 5x + 6}$$

$$\frac{x(2x - 3)}{\quad}$$

$$\frac{2}{x + 3}$$

$$\boxed{3} \quad \frac{4x + 8}{x^2 - 25} \cdot \frac{x - 5}{5x + 10}$$

$$\boxed{4} \quad \frac{6x^2 - 19x + 3}{4x^2 - 36}$$

$$\frac{4}{5(x + 5)}$$

$$\frac{6x - 1}{4(x + 3)}$$

$$\boxed{5} \quad \frac{x^2 - 2x - 3}{x^2 + 6x + 5}$$

$$\boxed{6} \quad \frac{x^2 - 8x + 12}{x^2 - 16} \cdot \frac{4x + 16}{x^2 - 4x + 4}$$

$$\frac{x - 3}{x + 5}$$

$$\frac{4(x - 6)}{(x - 4)(x - 2)}$$