

Name :

Polynomials and Rational Expressions

Write each expression in lowest terms

1 $\frac{x - 4}{3x^2 - 12x}$

2 $\frac{-16x^2y^7}{12x^5y^3z^4}$

3 $\frac{12x^2}{9x^2y}$

4 $\frac{4x + 4}{x^2 + 4x + 3}$

5 $\frac{6x + 24}{x^2 + 7x + 12}$

6 $\frac{2x^2 - 8}{x^2 + 4x - 12}$

7 $\frac{2x^2 - 18x}{4x^3 - 32x^2 - 36x}$

8 $\frac{6 - 8x}{4x^2 - 3x}$

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Answers

$$1 \quad \frac{x - 4}{3x^2 - 12x}$$

$$\frac{1}{3x}$$

$$2 \quad \frac{-16x^2y^7}{12x^5y^3z^4}$$

$$\frac{-4y^4}{3x^3z^4}$$

$$3 \quad \frac{12x^2}{9x^2y}$$

$$\frac{4}{3y}$$

$$4 \quad \frac{4x + 4}{x^2 + 4x + 3}$$

$$\frac{4}{x + 3}$$

$$5 \quad \frac{6x + 24}{x^2 + 7x + 12}$$

$$\frac{6}{x + 3}$$

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

$$\frac{2(x + 2)}{x + 6}$$

$$7 \quad \frac{2x^2 - 18x}{4x^3 - 32x^2 - 36x}$$

$$\frac{1}{2(x + 1)}$$

$$8 \quad \frac{6 - 8x}{4x^2 - 3x}$$

$$-\frac{2}{x}$$