

Name: _____

Date: _____ Score: _____

Rational Expressions Worksheet

Simplify

① $\frac{120x^3y}{25xy^5}$

② $\frac{12x^3}{30x^2}$

③ $\frac{x^2 - 2x - 3}{x^2 + 6x + 5}$

④ $\frac{6x^2 - 19x + 3}{4x^2 - 36}$

⑤ $\frac{x^2 - 5x + 6}{x - 3}$

⑥ $\frac{24x^5}{30x^2}$

⑦ $\frac{x - 4}{3x^2 - 12x}$

⑧ $\frac{4x^3y}{24xy^3}$

⑨ $\frac{x^2 - 2x - 15}{x^2 - 9}$

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Answers

$$\textcircled{1} \quad \frac{120x^3y}{25xy^5}$$

$$\textcircled{2} \quad \frac{12x^3}{30x^2}$$

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

$$\frac{24x^2}{5y^4}$$

$$\frac{2x}{5}$$

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

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

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

$$\textcircled{6} \quad \frac{24x^5}{30x^2}$$

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

$$x - 2$$

$$\frac{4x^3}{5}$$

$$\textcircled{7} \quad \frac{x - 4}{3x^2 - 12x}$$

$$\textcircled{8} \quad \frac{4x^3y}{24xy^3}$$

$$\textcircled{9} \quad \frac{x^2 - 2x - 15}{x^2 - 9}$$

$$\frac{x - 4}{3x(x - 4)}$$

$$\frac{x^2}{6y^2}$$

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