

Name:

Date: Score:

Reducing Rational Expressions

1 $\frac{85d^8}{35d^7}$

2 $\frac{65q^3}{10q^5}$

3 $\frac{42x^2}{-36x^3}$

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

5 $\frac{3x - 12}{3x^2 - 12x}$

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

7 $\frac{15x - 3}{24}$

8 $\frac{27}{27x + 18}$

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Reducing Rational Expressions

Answers

$$\textcircled{1} \quad \frac{85d^8}{35d^7}$$

$$\frac{17d}{7}$$

$$\textcircled{2} \quad \frac{65q^3}{10q^5}$$

$$\frac{13}{2q^2}$$

$$\textcircled{3} \quad \frac{42x^2}{-36x^3}$$

$$-\frac{7}{6x}$$

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

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

$$\textcircled{5} \quad \frac{3x - 12}{3x^2 - 12x}$$

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

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

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

$$\textcircled{7} \quad \frac{15x - 3}{24}$$

$$\frac{5x - 1}{8}$$

$$\textcircled{8} \quad \frac{27}{27x + 18}$$

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