

Name:

Date: Score:

Rational Expressions - Precalculus

Simplify

1 $\frac{x^2 + 10x}{3x + 30}$

2 $\frac{4x^2 - 23x - 6}{6 - x}$

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

4 $\frac{x^2 + 5x - 14}{2 - x}$

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

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

7 $\frac{x^2 + 8x + 15}{3x + 9}$

8 $\frac{3x^2 + 21x - 90}{3x^2 + 31x + 10}$

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Answers

1 $\frac{x^2 + 10x}{3x + 30}$

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

2 $\frac{4x^2 - 23x - 6}{6 - x}$

$$-(4x + 1)$$

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

$$\frac{x + 9}{x + 2}$$

4 $\frac{x^2 + 5x - 14}{2 - x}$

$$-(x + 7)$$

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

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

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

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

7 $\frac{x^2 + 8x + 15}{3x + 9}$

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

8 $\frac{3x^2 + 21x - 90}{3x^2 + 31x + 10}$

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