

Name:

Date: Score:

Simplifying Rational Expressions

Simplify each expression

1 $\frac{16x^2}{28x}$

2 $\frac{45x^2}{25x}$

3 $\frac{8x^2}{12x^4}$

4 $\frac{(x+1)^3}{(x+1)^5}$

5 $\frac{x-4}{3x^2-12x}$

6 $\frac{35x}{35x^2}$

7 $\frac{2x-3}{3-2x}$

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

9 $\frac{24x^2y}{32xy^3}$

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Simplifying Rational Expressions

Answers

1 $\frac{16x^2}{28x}$

2 $\frac{45x^2}{25x}$

3 $\frac{8x^2}{12x^4}$

$\frac{4x}{7}$

$\frac{9x}{5}$

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

4 $\frac{(x+1)^3}{(x+1)^5}$

5 $\frac{x-4}{3x^2-12x}$

6 $\frac{35x}{35x^2}$

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

$\frac{1}{3x}$

$\frac{1}{x}$

7 $\frac{2x-3}{3-2x}$

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

9 $\frac{24x^2y}{32xy^3}$

-1

$(3x-2)^2$

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