

Simplifying Rational Expressions (12.4)

1) $\frac{6}{15}$

2) $\frac{20}{32}$

Simplifying Rational Expressions: Simplify.

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

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

5) $\frac{3x^2+12x}{x^2+13x+36}$

6) $\frac{10x^2-30x+20}{5x^3-10x^2}$

7) $\frac{x^2-16}{x^2+x-12}$

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

12.4 Practice

Simplifying Rational Expressions

9. $\frac{x+9}{x^2-81} =$

12. $\frac{x^2-10x+21}{x^2-11x+28} =$

10. $\frac{x+6}{x^2-2x-24} =$

13. $\frac{5x-15}{-x+3} =$

11. $\frac{8x^2-32}{8x^2-64} =$

14. $\frac{x^2+6x+9}{3x+9} =$

9. $\frac{1}{x-9}$ 10. $\frac{x+6}{(x-6)(x+4)}$ 11. $\frac{(x+2)(x-2)}{x^2-8}$ 12. $\frac{x-3}{x-4}$ 13. -5 14. $\frac{x+3}{3}$