

## 53 Multiplying and Dividing Rational Expressions

### EXAMPLES

**1** Simplify  $\frac{x-3}{x^2-x-20}$ . Identify any  $x$ -values for which the expression is undefined.

$$\frac{x-3}{x^2-x-20} = \frac{x-3}{(x-5)(x+4)} \quad \text{Factor. Then divide out common factors.}$$

Undefined at  $x = 5$  and  $x = -4$ . Factors.

**2** Divide. Assume that all expressions are defined.

$$\frac{x-3}{x+2} \div \frac{x^2+7x+10}{x+3} = \frac{x-3}{x+2} \cdot \frac{(x+3)(x+5)}{(x+2)(x+5)} = (x-3)(x+5)$$

Rewrite as multiplication.

## 53 Adding and Subtracting Rational Expressions

### EXAMPLES

**1** Add. Identify any  $x$ -values for which the expression is undefined.

$$\frac{5x-3}{x^2-x-12} + \frac{x}{x+3} = \frac{5x-3}{(x-4)(x+3)} + \frac{x}{x+3} \left( \frac{x-4}{x-4} \right)$$

$$\frac{5x-3 + x(x-4)}{(x-4)(x+3)} = \frac{x^2+2x-3}{(x-4)(x+3)}$$

Add the numerators.

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

Simplify the numerator.

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

Factor the numerator.

Undefined at  $x = 4$  and  $x = -3$ .

**2** Simplify. Assume that all expressions are defined.

$$\frac{x-2}{x+4} - \frac{1+2}{x-4} = \frac{(x-2)(x-4)}{(x+4)(x-4)} - \frac{(1+2)(x-4)}{(x+4)(x-4)} = \frac{x^2-2x-8-3x+12}{(x+4)(x-4)} = \frac{-2x+4}{(x+4)(x-4)} = \frac{-2(x-2)}{(x+4)(x-4)}$$

The LCD is  $(6x)(x-4)$ .

### EXERCISES

Simplify. Identify any  $x$ -values for which the expression is undefined.

11.  $\frac{24x^{10}}{8x^{10}}$  12.  $\frac{6x^5}{3x+12}$  13.  $\frac{x^2+x-12}{x^2+5x+4}$

Multiply. Assume that all expressions are defined.

14.  $\frac{x+5}{3x+1} \cdot \frac{3x+3}{x^2-25}$  15.  $\frac{x}{x-4} \cdot \frac{-x+2}{x^2+x-6}$

16.  $\frac{x^2+2x-3}{x^2-x-2} \cdot \frac{x-2}{x+3}$  17.  $\frac{5x^2-1}{x^2-9} \cdot \frac{x+3}{3x+1}$

Divide. Assume that all expressions are defined.

18.  $\frac{x^2y}{4xy^2} \div \frac{x}{8y^2}$  19.  $\frac{x^2+2x-15}{x-2} \div \frac{x^2-9}{2x-4}$

20.  $\frac{3x-21}{3x} \div \frac{x^2-49}{x^2+7x}$  21.  $\frac{x^2+4x+3}{x^2+2x-8} \div \frac{3x+3}{x-2}$

### EXERCISES

Add. Identify any  $x$ -values for which the expression is undefined.

22.  $\frac{4}{x^2+4} + \frac{x^2+8}{x^2+4}$  23.  $\frac{1}{x+3} + \frac{1}{x-3}$

24.  $\frac{x}{x^2-4} + \frac{1}{x-2}$  25.  $\frac{2x-3}{3x+7} + \frac{6}{4x-1}$

Find the least common multiple for each pair.

26.  $x^2-9$  and  $x^2-6x+9$

27.  $x^2+2x-35$  and  $x^2+9x+14$

Subtract. Identify any  $x$ -values for which the expression is undefined.

28.  $\frac{2x}{x+4} - \frac{3}{x+4}$  29.  $\frac{x}{x+5} - \frac{5}{x-5}$

30.  $\frac{1}{x^2-x-6} - \frac{x}{x+2}$  31.  $\frac{2x}{2x+1} - \frac{7}{3x-1}$

Simplify. Assume that all expressions are defined.

32.  $\frac{x-5}{x+2}$  33.  $\frac{x+3}{x^2-9}$  34.  $\frac{1}{x-1} - \frac{1}{x+1}$

35. A jet's average speed is 520 mi/h when flying from Dallas to Chicago and 580 mi/h on the return trip. What is the jet's average speed for the entire trip?

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