

5.2 Multiplying and Dividing Rational Expressions

EXAMPLES

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

$$\frac{x-3}{x^2-2x-15} = \frac{x-3}{(x-5)(x+3)}$$

Factor. Then cancel out common factors.
undefined at $x = 5$ and $x = -3$. Factors.

2. Simplify. Assume that all expressions are defined.

$$\frac{x+3}{x^2+2x+10} \cdot \frac{x^2+2x+10}{x+3}$$

Rewrite as
common denominators.
 ~~$x^2+2x+10$~~ $(x+2)(x+5)$ $= (x+2)(x+5)$

EXERCISES

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

1. $\frac{2x}{3x-6}$ 2. $\frac{5x^2}{3x+12}$ 3. $\frac{x^2+9-12}{x^2+5x+6}$

4. Multiply. Assume that all expressions are defined.

5. $\frac{x+2}{3x+1} \cdot \frac{3x+3}{x^2-25}$ 6. $\frac{x}{x-4} \cdot \frac{x+2}{x^2+8x-16}$
7. $\frac{x^2+2x-3}{x^2-x-2} \cdot \frac{x-3}{x+3}$ 8. $\frac{5x^2-1}{x^2-25} \cdot \frac{x-3}{3x+1}$

9. Divide. Assume that all expressions are defined.

10. $\frac{3x^2y}{8xy^2} \div \frac{3}{8y^3}$ 11. $\frac{x^2+2x-15}{x-2} \div \frac{x^2-25}{2x-4}$
12. $\frac{3x-21}{3x} \div \frac{x^2-49}{x^2+7x}$ 13. $\frac{x^2+4x+3}{x^2+2x-8} \div \frac{2x+3}{x-2}$

5.3 Adding and Subtracting Rational Expressions

EXAMPLES

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

$$\frac{x-3}{x^2-2x-15} = \frac{x-3}{(x-5)(x+3)}$$

$$\frac{3x-3}{-6(x+3)} + \frac{3}{x+3} \left(\frac{x-3}{x-5} \right)$$

2. Simplify. Add the numerators.

$$\frac{(x-3)(x+3)}{(x-5)(x+3)} = \frac{x^2-9}{x^2-25}$$

$x^2-9x-25$ Simplify the numerator.
 $x^2-25x+25$
 $x^2-9 = (x-3)(x+3)$ Factor the numerator.

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

$$\frac{12x^2-16x^3(x-4)}{8x^3(x-4)} = \frac{12x^2-16x^3(x-4)}{8x^3(x-4)}$$

The LCD is $8x^3(x-4)$.
 $12x^2-16x^3(x-4)$ $= (x+2)(x-4)$

$$\frac{-20(x-4)}{8x^3} = \frac{(x+2)(x-4)}{8x^3}$$

EXERCISES

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

2. $\frac{4}{x^2+4} + \frac{x^2+x-8}{x^2+4}$ 23. $\frac{1}{x+3} + \frac{1}{x-3}$
24. $\frac{3}{x^2-4} + \frac{1}{x-2}$ 25. $\frac{2x-3}{3x+1} + \frac{6}{4x-1}$

26. Find the least common multiple for each pair.

26. x^2-9 and $x^2-8x+16$
27. $x^2+2x-25$ and $x^2+3x+14$

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

28. $\frac{2x}{x+4} - \frac{3}{x+4}$ 29. $\frac{5}{x+5} - \frac{3}{x-5}$
30. $\frac{1}{x^2-x-6} - \frac{x}{x+2}$ 31. $\frac{2x}{2x+1} - \frac{7}{3x-1}$

32. Simplify. Assume that all expressions are defined.

32. $\frac{x-3}{\frac{3}{x+2}}$ 33. $\frac{\frac{x-3}{x+2}}{\frac{x-3}{x+2}}$ 34. $\frac{\frac{x-3}{x+2}}{\frac{x-3}{x+2}}$

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

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