

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.

EXERCISES

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

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

Multiply. Assume that all expressions are defined.

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

$$16. \frac{x^2+2x-3}{x^2-x-2} \cdot \frac{x-2}{x+3} \quad 17. \frac{6x^2-1}{x^2-9} \cdot \frac{x+3}{3x+1}$$

Divide. Assume that all expressions are defined.

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

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

53 Adding and Subtracting Rational Expressions

EXAMPLES

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

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

$$\frac{5x-3+x(x-4)}{(x-4)(x+3)} \quad \text{Add the numerators.}$$

$$\frac{x^2+2x-3}{(x-4)(x+3)} \quad \text{Simplify the numerator.}$$

$$\frac{(x+3)(x-1)}{(x-4)(x+3)} = \frac{x-1}{x-4} \quad \text{Factor the numerator.}$$

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

2 Simplify. Assume that all expressions are defined.

$$\frac{x^2}{x+4} - \frac{1+2}{x-4} = \frac{(x+2)(x-4)}{(x+4)(x-4)} - \frac{(x+2)(x-4)}{(x+4)(x-4)} \quad \text{The LCD is } (6x)(x-4).$$

$$\frac{x^2-2(x-4)}{(x+4)(x-4)} = \frac{(x+2)(x-4)}{6x^2}$$

EXERCISES

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

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

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

Find the least common multiple for each pair.

$$26. x^2-9 \text{ and } x^2-6x+9$$

$$27. x^2+2x-35 \text{ and } x^2+9x+14$$

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

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

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

Simplify. Assume that all expressions are defined.

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

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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