

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.

$$\frac{x-3}{x+2} \div \frac{x^2+7x+10}{x+3}$$

$$\frac{x-3}{x+2} \cdot \frac{x+3}{x^2+7x+10} \quad \text{Rewrite as multiplication.}$$

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

53 Adding and Subtracting Rational Expressions

EXAMPLES

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

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

$$\frac{5x-3}{(x-4)(x+3)} + \frac{x}{x+3} \left(\frac{x-4}{x-4} \right)$$

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

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

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

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

2 Simplify. Assume that all expressions are defined.

$$\frac{x-2}{x+4} - \frac{1+2}{x-4} \cdot \frac{(6x)(x-4)}{(6x)(x-4)}$$

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

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

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

Divide. Assume that all expressions are defined.

18. $\frac{x^2y}{4xy^2} \div \frac{x}{8y^2}$ 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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Marco Casella



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available data are sufficient for evaluating the efficacy of these materials and if not Develop recommendations about the design of a project that could result in the generation of more reliable and valid data for evaluating such materials The committee collected reviewed and classified almost 700 studies solicited expert testimony during two workshops developed an evaluation framework established dimensions criteria for three methodologies content analyses comparative studies and case studies drew conclusions on the corpus of studies and made recommendations for future research

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