

$$\frac{x^2 + 11x - 12}{x^2 - 1} \cdot \frac{5x + 5}{3x + 1}$$

Factor:  $\frac{(x - 1)(x + 12)}{(x + 1)(x - 1)} \cdot \frac{5(x + 1)}{3x + 1}$

Cancel:  $\frac{\cancel{(x - 1)}(x + 12)}{\cancel{(x + 1)}\cancel{(x - 1)}} \cdot \frac{5\cancel{(x + 1)}}{3x + 1}$

Combine:  $\boxed{\frac{5(x + 12)}{3x + 1}}$  OR  $\frac{5x + 60}{3x + 1}$

$$(2x + 16) \cdot \frac{5}{2x^2 + 17x + 8}$$

Factor:  $\frac{2(x + 8)}{1} \cdot \frac{5}{(2x + 1)(x + 8)}$

Cancel:  $\frac{2\cancel{(x + 8)}}{1} \cdot \frac{5}{(2x + 1)\cancel{(x + 8)}}$

Combine:  $\boxed{\frac{10}{2x + 1}}$

$$\frac{y - 6}{10} \div \frac{6 - y}{5}$$

Invert and multiply:  $\frac{y - 6}{10} \cdot \frac{5}{6 - y}$

(use -1 as factor)  $\frac{y - 6}{10} \cdot \frac{5}{(-1)(y - 6)}$

cancel and combine:  $\frac{\cancel{y - 6}}{10} \cdot \frac{5}{(-1)\cancel{(y - 6)}}$

simplify/reduce:  $\frac{5}{(-1)10} = \boxed{-\frac{1}{2}}$

$$\frac{2x^2 - 9x - 3}{4x^2 - 12x - 7} \div \frac{4x + 9}{2x - 7}$$

Invert and multiply:  $\frac{2x^2 - 9x - 3}{4x^2 - 12x - 7} \cdot \frac{2x - 7}{4x + 9}$

Factor:  $\frac{(2x + 1)(2x - 3)}{(2x - 7)(2x + 1)} \cdot \frac{2x - 7}{4x + 9}$

cancel:  $\frac{\cancel{(2x + 1)}(2x - 3)}{\cancel{(2x - 7)}\cancel{(2x + 1)}} \cdot \frac{\cancel{2x - 7}}{4x + 9}$

combine:  $\boxed{\frac{2x - 3}{4x + 9}}$

$$\frac{4x^2 + 8x - 12}{5 - 6x + x^2} \div \frac{2x^2 + 7x + 3}{4x^2 - 8x - 5}$$

Invert and multiply:  $\frac{4x^2 + 8x - 12}{x^2 - 6x + 5} \cdot \frac{4x^2 - 8x - 5}{2x^2 + 7x + 3}$

Factor:  $\frac{4(x^2 + 2x - 3)}{(x - 1)(x - 5)} \cdot \frac{(2x + 1)(2x - 5)}{(2x + 1)(x + 3)}$

cancel:  $\frac{4\cancel{(x + 1)}\cancel{(x - 3)}}{\cancel{(x - 1)}(x - 5)} \cdot \frac{\cancel{(2x + 1)}(2x - 5)}{\cancel{(2x + 1)}\cancel{(x + 3)}}$

combine:  $\boxed{\frac{4(2x - 5)}{(x - 5)}}$

$$\frac{x^2 + 3x + 2}{x^2 - 1} \cdot \frac{5x - 1}{4x^2 + 8x}$$

note: this is simply a division problem.

Invert and multiply:  $\frac{x^2 + 3x + 2}{x^2 - 1} \cdot \frac{5(x - 1)}{4x^2 + 8x}$

Factor:  $\frac{(x + 2)(x + 1)}{(x + 1)(x - 1)} \cdot \frac{5(x - 1)}{4x(x + 2)}$

cancel:  $\frac{\cancel{(x + 2)}\cancel{(x + 1)}}{\cancel{(x + 1)}(x - 1)} \cdot \frac{5\cancel{(x - 1)}}{4x\cancel{(x + 2)}}$

combine:  $\boxed{\frac{5}{4x}}$

# Facing Math Lesson 5 Rational Expressions Answers

**M Mark**



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