

- If you have any difficulty with these solutions, please contact your teacher before continuing.

Page 233, *Your Turn*

$$\frac{12x^3}{3x^2 + 6x} \cdot \frac{4x^3 + 8x^2}{5}$$

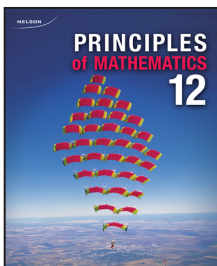
$$= \frac{12x^3}{3x(x+2)} \cdot \frac{4x^2(x+2)}{5} \quad \checkmark$$

$$= \frac{48x^5(x+2)}{15x(x+2)} \quad \checkmark$$

$$= \frac{3x(16x^4)(x+2)}{3x(5)(x+2)}$$

$$= \frac{\cancel{3x}(16x^4)(\cancel{x+2})}{\cancel{3x}(5)(\cancel{x+2})} \quad \checkmark \quad \checkmark$$

$$= \frac{16x^4}{5} \quad \checkmark \quad x \neq 0, -2 \quad \checkmark$$



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$$\frac{x^3 + x^2}{16} \div \frac{x^2 + x}{20x - 10}$$

$$= \frac{x^3 + x^2}{16} \times \frac{20x - 10}{x^2 + x}$$

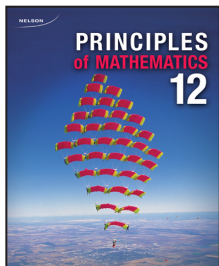
$$= \frac{x^2(x+1)}{16} \times \frac{10(2x-1)}{x(x+1)} \quad \checkmark$$

$$= \frac{10x^2(x+1)(2x-1)}{16x(x+1)} \quad \checkmark$$

$$= \frac{2x(5x)(x+1)(2x-1)}{2x(8)(x+1)}$$

$$= \frac{\cancel{2x}(5x)(\cancel{x+1})(2x-1)}{\cancel{2x}(8)(\cancel{x+1})} \quad \checkmark \quad \checkmark$$

$$= \frac{5x(2x-1)}{8} \quad \checkmark \quad x \neq \frac{1}{2}, 0, -1 \quad \checkmark$$



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Page 236, *Your Turn*

$$\frac{4x^2 - 1}{x + 2} \div \frac{4x^2 + 2x}{8x^2 - 32}$$

$$= \frac{4x^2 - 1}{x + 2} \times \frac{8x^2 - 32}{4x^2 + 2x}$$

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

$$= \frac{(2x - 1)(2x + 1)}{x + 2} \times \frac{8(x - 2)(x + 2)}{2x(2x + 1)} \quad \checkmark$$

$$= \frac{8(2x - 1)(2x + 1)(x - 2)(x + 2)}{2x(x + 2)(2x + 1)} \quad \checkmark$$

$$= \frac{\cancel{8}^4 (2x - 1)(\cancel{2x + 1})(x - 2)(\cancel{x + 2})}{\cancel{2x}^1 (\cancel{x + 2})(\cancel{2x + 1})} \quad \checkmark \quad \checkmark$$

$$= \frac{4(2x - 1)(x - 2)}{x} \quad \checkmark \quad x \neq -2, 2, 0, \frac{-1}{2} \quad \checkmark$$