

# Unit 1 - Characteristics of Functions

## 1. Simplify:

$$(3x + 2)^2 - (4x + 1)(x - 2)$$

$$\begin{aligned} &= (3x + 2)(3x + 2) - (4x + 1)(x - 2) \\ &= (9x^2 + 12x + 12x + 4) - (4x^2 - 8x + x - 2) \\ &= (9x^2 + 24x + 4) - (4x^2 - 7x - 2) \\ &= (9x^2 + 24x + 4) - (4x^2 - 7x - 2) \\ &= 9x^2 + 24x + 4 - 4x^2 + 7x + 2 \\ &= 5x^2 + 31x + 6 \end{aligned}$$

## 2. Perform the indicated operations and simplify:

$$a) -4\sqrt{28} + 2\sqrt{7} - 3\sqrt{28} - 14\sqrt{28}$$

$$\begin{aligned} &= -4\sqrt{4 \cdot 7} + 2\sqrt{7} - 3\sqrt{4 \cdot 7} - 14\sqrt{4 \cdot 7} \\ &= -4(2\sqrt{7}) + 2\sqrt{7} - 3(2\sqrt{7}) - 14(2\sqrt{7}) \\ &= -8\sqrt{7} + 2\sqrt{7} - 6\sqrt{7} - 28\sqrt{7} \\ &= -24\sqrt{7} - 24\sqrt{7} = -48\sqrt{7} \end{aligned}$$

$$b) (2\sqrt{3} - 4\sqrt{3})(3\sqrt{3} + 5\sqrt{3})$$

$$\begin{aligned} &= (2\sqrt{3} - 4\sqrt{3})(3\sqrt{3} + 5\sqrt{3}) \\ &= (2\sqrt{3} - 4\sqrt{3})(3\sqrt{3} + 5\sqrt{3}) \\ &= (2\sqrt{3} - 4\sqrt{3})(3\sqrt{3} + 5\sqrt{3}) \\ &= (2\sqrt{3} - 4\sqrt{3})(3\sqrt{3} + 5\sqrt{3}) \\ &= (2\sqrt{3} - 4\sqrt{3})(3\sqrt{3} + 5\sqrt{3}) \\ &= (2\sqrt{3} - 4\sqrt{3})(3\sqrt{3} + 5\sqrt{3}) \end{aligned}$$

## 3. Simplify, and state the restrictions on the variable

$$b) \frac{x^2 - 2x + 1}{x^2 - 4} + \frac{x^2 - 1}{x^2 - 1}$$

$$(x - 1)(x + 1) = (x - 1)(x + 1)$$

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

## Determining the restrictions:

$$\begin{aligned} x + 1 &\neq 0 & x - 1 &\neq 0 & x + 1 &\neq 0 & x - 1 &\neq 0 \\ x &\neq -1 & x &\neq 1 & x &\neq -1 & x &\neq 1 \end{aligned}$$

• The restrictions are  $x \neq -1, x \neq 1, x \neq -1$ , and  $x \neq 1$ .

$$b) \frac{3x}{x^2 - 1} - \frac{4}{x + 1}$$

$$= \frac{3x}{(x - 1)(x + 1)} - \frac{4}{x + 1}$$

$$= \frac{3x}{(x - 1)(x + 1)} - \frac{4(x - 1)}{(x - 1)(x + 1)}$$

$$= \frac{3x - 4(x - 1)}{(x - 1)(x + 1)}$$

$$= \frac{-x + 4}{(x - 1)(x + 1)}$$

## Determining the restrictions:

$$\begin{aligned} x &\neq 0 & x + 1 &\neq 0 \\ x &\neq -1 & x &\neq -1 \end{aligned}$$

• The restrictions are  $x \neq 0$  and  $x \neq -1$ .

## 4. Determine if the following expressions are equivalent. Justify your answer.

$$f(x) = \frac{3x^2 + 12x + 12}{x + 2} \text{ and } g(x) = 3x(x + 2) + (1 + 3x^2)$$

# Ilc Functions Key Answers

**Kathleen Armour**



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