

Functions: Lesson 3

Function Notation: Notes

Answers



Name: _____

$$y = 4x + 3 \quad \longrightarrow \quad \underline{f(x)} = 4x + 3$$

Say " f of x "

$$C = 2\pi r \quad \longrightarrow \quad \underline{C(r)} = 2\pi r$$

$$\underline{h(t)} = -16t^2 + 6t + 2$$

Evaluate $4x + 3$ when $x = 1$.

$$4(\underline{1}) + 3 = \underline{7}$$

$$f(x) = 4x + 3$$

$$f(1) = ?$$

$$f(1) = 4x + 3 = \underline{4(1) + 3 = 7}$$

$$g(x) = x^2 - 3x + 2$$

$$g(-2) = ?$$

$$\underline{(-2)^2} - 3(\underline{-2}) + 2$$

$$\underline{4} + \underline{6} + \underline{2} = \underline{12}$$

$$(-2)^2 = \underline{-2} \cdot \underline{-2} = \underline{4}$$

$$f(x) = -x^2 - 3x + 2$$

$$f(-2) = ?$$

$$\underline{-(-2)^2} - 3(\underline{-2}) + 2$$

$$\underline{-4} + 6 + 2 = \underline{4}$$

$$h(x) = -3|x + 7| - 2 \quad h(-10) = ?$$

$$h(-10) = -3|(\underline{-10}) + 7| - 2$$

$$-3|\underline{-3}| - 2$$

$$-3 \cdot \underline{3} - 2$$

$$\underline{-9} - 2 = \underline{-11}$$