

Notes on function notation:

If an equation is modeling a function, it can be written in function notation.

$$y = 3x^2 + 2 \longrightarrow f(x) = 3x^2 + 2$$

function ~~defined~~ defined in terms of x .

$$d = 2t + 4 \longrightarrow g(t) = 2t + 4$$

To evaluate using function notation

$$h(x) = 3x + 1$$

$$\text{ex 1) } h(-3) = 3(-3) + 1 = -8$$

$$\text{ex 2) } h(4a) = 3(4a) + 1 = 12a + 1$$

$$\text{ex 3) } h(x+1) = 3(x+1) + 1 = 3x + 3 + 1 = 3x + 4$$

always simplify