

# Function Notation

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In algebra, we use function notation:

Non-function notation:  $y = x^2$

Re-written with function notation:  $f(x) = x^2$

We read this as “ $f$  of  $x$ ”

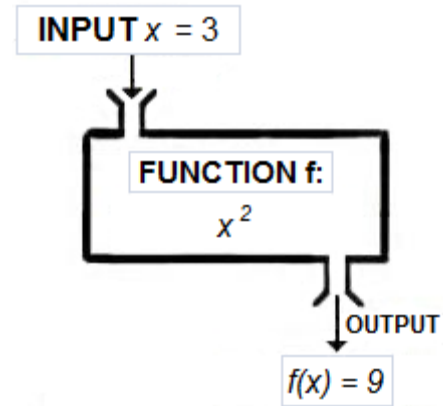
$$f(3) = (3)^2$$

$$f(3) = 9$$

$$f(*) = *^2$$

$$f(\Theta) = \Theta^2$$

$$f(\nabla) = \nabla^2$$



Let  $f(x) = 2x + 1$ . Find  $f(-2)$ ,  $f(0)$ ,  $f(a)$ ,  $f(a + h)$ ,  $\frac{f(a + h) - f(a)}{h}$

Let  $g(x) = 2 - x^2$ . Find  $g(-2)$ ,  $g(0)$ ,  $g(a)$ ,  $g(a + h)$ ,  $\frac{g(a + h) - g(a)}{h}$