Function Notation

When a function can be written as an equation, the symbol f(x) replaces y and is read as "the value of f at x" or simply "f of x."

This does NOT mean f times x.

Replacing y with f(x) is called writing a function in **function notation**.

Examples:

If f(x) = 2x – 3, find the following:

a. f(-2)

b. f(7)

c. f(-4)

If k(x) = -7x + 1, find the following:

d. k(0)

e. k(-1)

f. k(5)

i.

REMEMBER***

f(-3) means -3 is your input and you plug it in for x

f(x) = -3 means that your whole function is = to -3 and you plug into the y.

1. Evaluate the following expressions given the functions below:

$g(x) = -3x + 1$ $f(x) = x^2 + 7$ $h(x) = \frac{12}{x}$ $j(x) = 2x + 9$

a. g(10) =

b. f(3) =

c. h(–2) =

d. j(7) =

e. h(a)

f. g(b+c)

g. f(h(x))

h. j(f(x))

i. g(3) + j(-8)

j. f(h(-4))