

Algebra 1 MONDAY 11-5-12 Class Notes

function notation
(write)

→ named function $\Rightarrow$ ~~ex~~ f

→ WHAT is the independent variable
 $\Rightarrow$ ~~ex~~ x

→ the equation for the function

~~ex~~ $f(x) = 3x + 2$ $f(-1) = ?$

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

$$f(-1) = 3(-1) + 2$$
$$= -3 + 2$$

$$y = \boxed{f(-1) = -1}$$

↑ ↑
x y

$$\boxed{(-1, -1)}$$

↑↑

$$f(x) = 4x + 1 \quad - \quad g(x) = -2x + 6$$

$$g(3) = ?$$

$$g(x) = -2x + 6$$

$$g(3) = -2(3) + 6$$

$$g(3) = -6 + 6$$

$$\boxed{g(3) = 0}$$

$\Rightarrow$ Represents the point (3, 0)

$$f(2) = ?$$

$$\boxed{f(x) = 4x + 1}$$

$$f(2) = 4(2) + 1$$

$$f(2) = 8 + 1$$

$$\boxed{f(2) = 9}$$

$$f(2c) = ?$$

$$f(x) = 4x + 1$$

$$f(2c) = 4(2c) + 1$$

$$\boxed{f(2c) = 8c + 1}$$

$\Rightarrow$ represents $\left(\underset{\substack{\uparrow \\ x}}{2c}, \underset{\substack{\uparrow \\ y}}{8c+1} \right)$



$$h(a) = 3a^2 - 2$$

↑
assume dependent variable is b

$$\begin{aligned} b &= 3a^2 - 2 \\ b &= h(a) = 3a^2 - 2 \end{aligned}$$

$$h(6) = ?$$

$$h(a) = 3a^2 - 2$$

$$h(6) = 3(6)^2 - 2$$

$$= 3(36) - 2$$

$$= 108 - 2$$

$$h(6) = 106$$

$$(6, 106)$$

a, b