Key

Math 1

Name _____

2-3 Intro to Function Notation Practice

Date _____

- *I can interpret function notation and explain how the output of a function is matched to its input.*
- *I can interpret the meaning of an ordered pair*

1. Evaluate the following expressions given the functions below:

$g(x) = -4x + 2$ $\quad f(x) = x^2 - 5$ $\quad h(x) = \frac{20}{x}$ $\quad j(x) = x + 6$

Solve	Ordered Pair(s)
a. $g(5) =$ -18	(5, -18)
b. $f(3) =$ 4	(3, 4)
c. $h(-4) =$ -5	(-4, -5)
d. $j(3) =$ 9	(3, 9)
e. $h(-2.5) =$ -8	(-2.5, -8)
f. $g(-1) =$ 6	(-1, 6)
g. $f(-3) =$ 4	(-3, 4)
h. $h(4) =$ 5	(4, 5)
i. $j(0) =$ 6	(0, 6)
j. If $g(x) = 10$, what is x?	(-2, 10)
k. If $h(x) = -20$, what is x?	(-1, -20)
l. If $f(x) = 20$, what is x?	(5, 20) & (-5, 20)

Can you find $h(c) = ?$

$h(c) = \frac{20}{c}$

Can you find $g(m + n) = ?$

$g(m+n) = -4(m+n) + 2$

OR $= -4m - 4n + 2$

$20 = x^2 - 5$

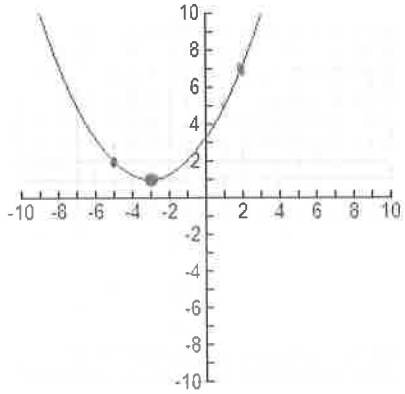
$25 = x^2$

$x = \pm 5$

2. Write the following coordinate points in function notation:

a. (5, 20) $f(5) = 20$ | b. (-4, 18) $f(-4) = 18$ | c. (-20, -1) $f(-20) = -1$ | d. (-6, 0) $f(-6) = 0$

3. Given the graph of $b(x)$:



Find:

a. $b(-3) =$ 1 (x) / 7 (y)

b. $b(-5) =$ 2

c. $b(2) =$ 7

d. If $b(x) = 5$, what is x?

$x = 1$

So, $b(1) = 5$