

Function Notation Worksheet #1

Name: _____

1. If $f(x) = 2x - 3$, find the following:

a. $f(-2)$

b. $f(7)$

c. $f(-4)$

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

d. $k(0)$

e. $k(-1)$

f. $k(5)$

3. 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. $h(6) =$

f. $j(b) =$

g. $f(y) =$

h. $g(s) =$

i. $g(x - 1) =$

j. $j(4 + c) =$

k. $h(x - y) =$

l. $j(a + c) =$

Fill in the function charts:

x	$f(x) = 8 - x$
-3	
-2	
-1	
0	
1	
2	
3	

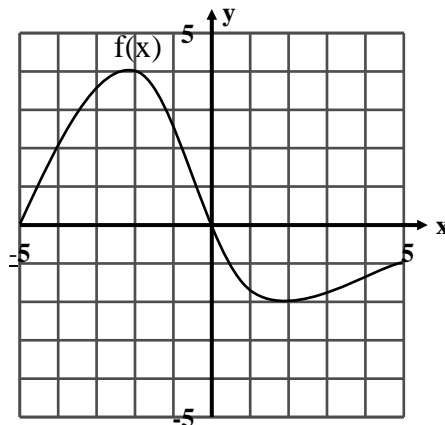
x	$k(x) = 4x^2 - 3$
-2	
-1	
0	
1	
2	
3	
4	

x	$d(x) = \frac{12}{x} - 1$
-6	
-4	
-2	
0	
2	
4	
6	

x	$p(x) = 4x$
-10	
-3	
8	
11	
17	
y	
x - 2	

Bonus. (Optional – we will go over in class) *See if you can figure out what $f(x)$ means in terms of a graph. Remember that the number in the parentheses is the input, and the number you are looking for is the output*

Given this graph of the function $f(x)$:



Find:

a. $f(-4) =$

b. $f(0) =$

c. $f(3)$

d. $f(-5)$