

Evaluate Functions

Algebra I Function Notation Worksheet

Name: _____
Hour: _____ Date: _____

1. Evaluate the following expressions given the functions below:

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

a. $g(10) =$

b. $f(3) =$

c. $h(-2) =$

d. $j(7) =$

e. $h(4) + j(10)$

f. Find x if $g(x) = 16$

g. Find x if $h(x) = -2$

h. Find x if $f(x) = 23$

i. CHALLENGE! $g(j(-6))$

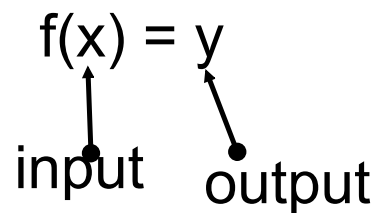
j. CHALLENGE! $f(h(x))$

2. Translate the following statements into coordinate points: (x,y)

a. $f(-1) = 1$

b. $h(2) = 7$

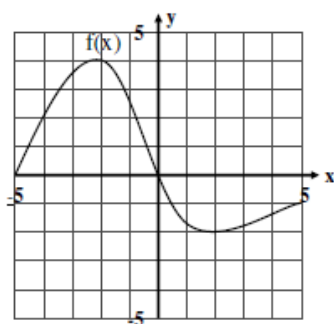
c. $g(1) = -1$



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d. $k(3) = 9$

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



Use the graph to find the values

Find:

a. $f(-4) =$

b. $f(0) =$

c. $f(3) =$

d. $f(-5) =$

e. x when $f(x) = 2$

f. x when $f(x) = 0$