

1. Evaluate the following expressions given the functions below:

Name _____

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

a. $g(10) =$

b. $f(3) =$

c. $h(-2) =$

d. $j(7) =$

e. $h(a)$

f. $g(b+c)$

g. $f(h(x))$

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

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

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

2. Translate the following statements into coordinate points:

a. $f(-1) = 1$

b. $h(2) = 7$

c. $g(1) = -1$

d. $k(3) = 9$

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

Find:

a. $f(-4) =$

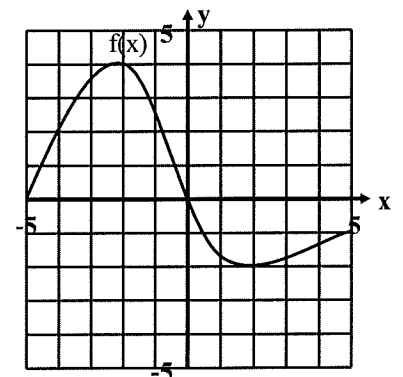
b. $f(0) =$

c. $f(3) =$

d. $f(-5) =$

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

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



4. Find an equation of a linear function given $h(1) = 6$ and $h(4) = -3$.

Evaluating Functions

Evaluate each function.

1) $f(n) = n^2 - 5n$; Find $f(3)$

2) $g(n) = |n| + 3$; Find $g(5)$

3) $g(n) = 2n - 5$; Find $g(-8)$

4) $f(a) = a^2 + 2$; Find $f(-6)$

5) $f(a) = -3a + 5$; Find $f(2)$

6) $p(n) = |2n + 3| + 1$; Find $p(-2)$

7) $f(n) = 2|n + 2|$; Find $f(-7)$

8) $h(x) = 3^x - 1$; Find $h(2)$

9) $f(x) = 3^x$; Find $f(-2)$

10) $g(x) = x + 2$; Find $g(-9)$