

7.3 Functions and Notation (Plugging in x)

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. $h(-2) =$

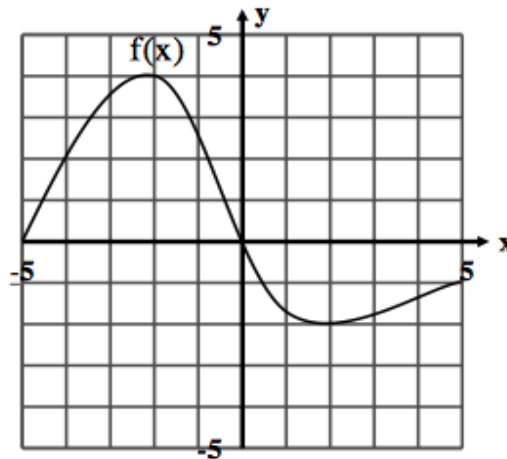
2. Translate the following statements into coordinate points:

a. $f(-1) = 1$

b. $h(2) = 7$

c. $g(1) = -1$

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 $f(x) = 0$

Solve the following functions for the indicated value:

4) $f(x) = 3x^4 - 4x + 7$

a) $f(3) =$

b) $f(-1) =$

c) $f(-2) =$

5) $f(x) = 4x^2 + 3 - 7x$

a) $f(-1) =$

b) $f(0) =$

c) $f(2) =$

6) $f(x) = \frac{x+2}{x-1}$

a) $f(-3) =$

b) $f(0) =$

c) $f(4) =$