

1. 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. $g(10)$

$$g(10) = -3(10) + 1$$

$$g(10) = -30 + 1$$

$$g(10) = -29$$

b. $f(3)$

$$f(3) = (3)^2 + 7$$

$$f(3) = 9 + 7$$

$$f(3) = 16$$

c. $h(-2)$

$$h(-2) = \frac{12}{-2}$$

$$h(-2) = -6$$

d. $j(7)$

$$j(7) = 2(7) + 9$$

$$j(7) = 14 + 9$$

$$j(7) = 23$$

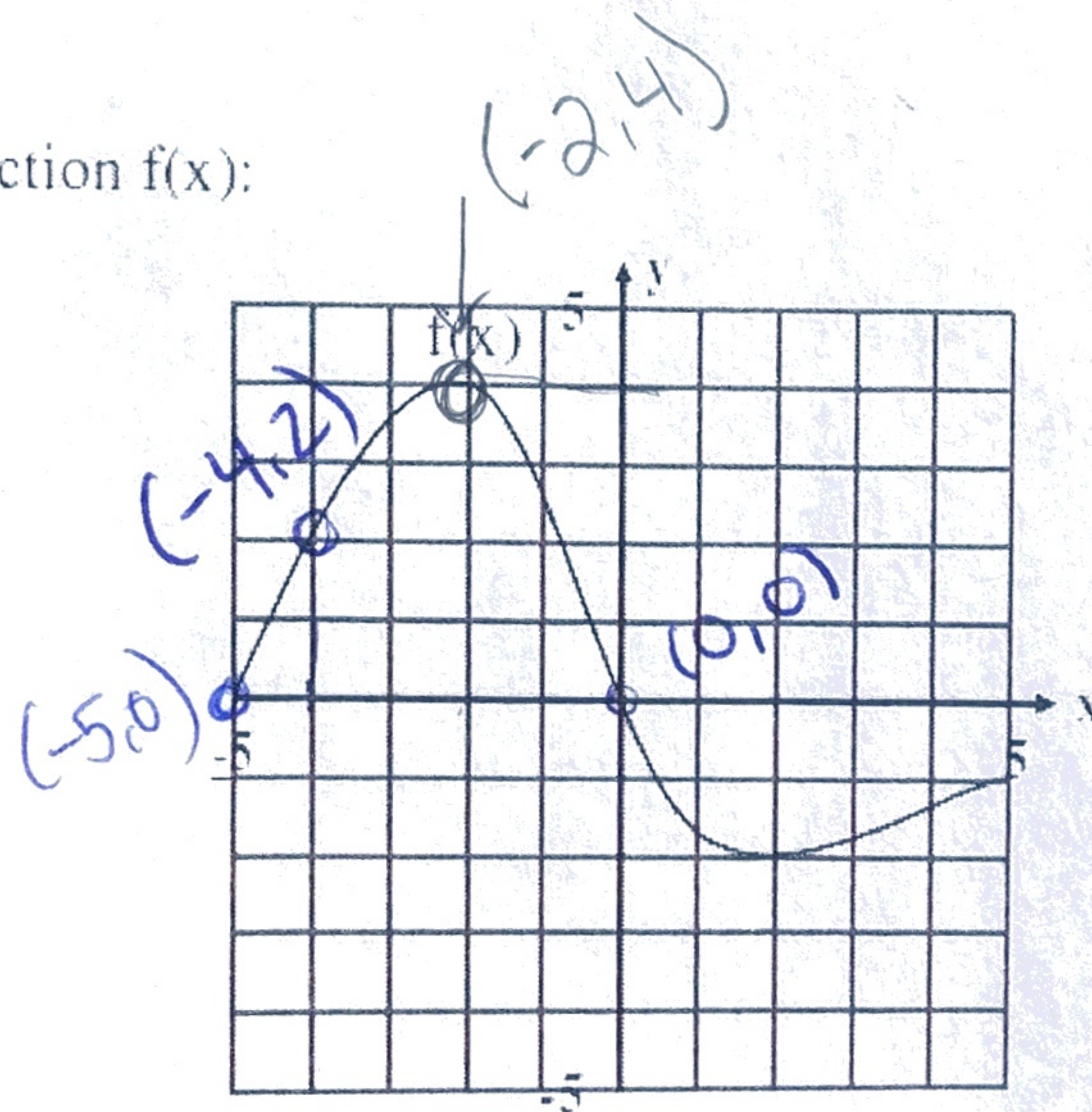
2. Translate the following statements into coordinate points:

a. $f(-1) = 1$ $(-1, 1)$

b. $h(2) = 7$ $(2, 7)$

c. $g(1) = -1$ $(1, -1)$

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



Find:

a. $f(-4) = 2$
 $x = -4$

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

c. $f(x) = 4$
find x

d. $f(-5) = 0$
 $x = -5$

$$x = -2$$