Functions and Inequalities **NAME:**_____

TOPIC C: Function Notation **DATE:**_____

1. Evaluate the following expressions given the functions below:

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

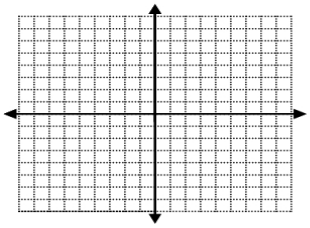
a. g(10) = **b.** f(3) = **c.** h(–2) =

d. j(7) = **e.** h(a) **f.** g(b+c)

h. Find x if g(x) = 16 **i.** Find x if h(x) = –2 **j.** Find x if f(x) = 23

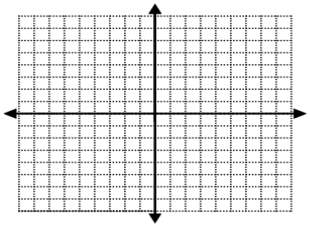
2. Given $f(x) = 3 - 4x$. Fill in the table and then sketch a graph.

x	f(x)
-6	
-3	
0	
1	
	-5



3. Given $f(x) = \sqrt{x+1}$. Fill in the table and then sketch a graph.

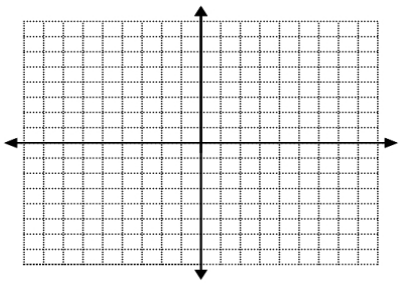
x	f(x)
3	
0	
-10	
2	
	6



4. Translate the following statements into coordinate points, then plot them!

a. f(–1) = 1

b. f(2) = 7

c. f(1) = –1

d. f(3) = 0