Function Notation

Released STAAR question:

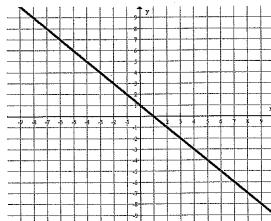
For the function, w, w(9) = -7 and w(-7) = 9. If y = w(x), what is the value of ywhen x = -7?

Record your answer and fill in the bubbles on your answer document.

Explore:

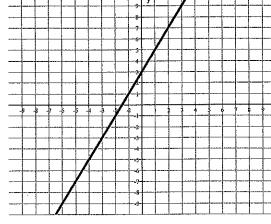
f(x) = yNote:

1) Look at the graph below. The value of f(-1) is 2. means: The function evaluated at -1 is 2. (-1,2)



 $f(4): \frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}{1}$

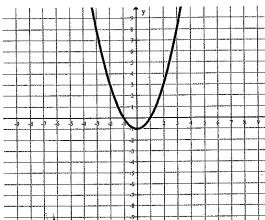
2) Look at the graph below. The value of f(0) is 3. means: The value of the function when χ is 0 is 3.



Nowfind:

 $f(2) = \underline{\qquad}$ If f(x) = -3, what is x?

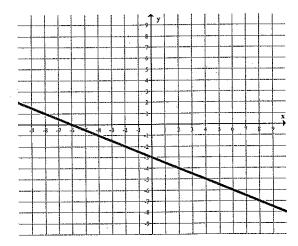
3) Look at the graph below. The value of f(3) is 8.



Now find:

If f(x) = 1, what is x?

4) Look at the graph below. The value of f(-2) is $\cancel{\lambda}$. $-\cancel{\lambda}$



- a. Write a sentence describing the meaning of f(-2).
- b. Write a sentence describing how to find f(x) for any value of x.
- c. What is f(-4)? What is f(6)? What is f(-6)?

d. Look at the graph in #4). How do you think you would find x when f(x) = -3?