

Directions:

- Show all your work and clearly indicate what your final answer is.
- Use proper mathematical notation.

1. The graph of the function f is given below. Use it to find the following:

a. $f(4)$?

$f(4) = -1(4) + 5 \Rightarrow -4 - 5$

$f(4) = -9$

b. All values of x if $f(x) = -4$

$-\infty < x \leq 5$

c. Domain of f

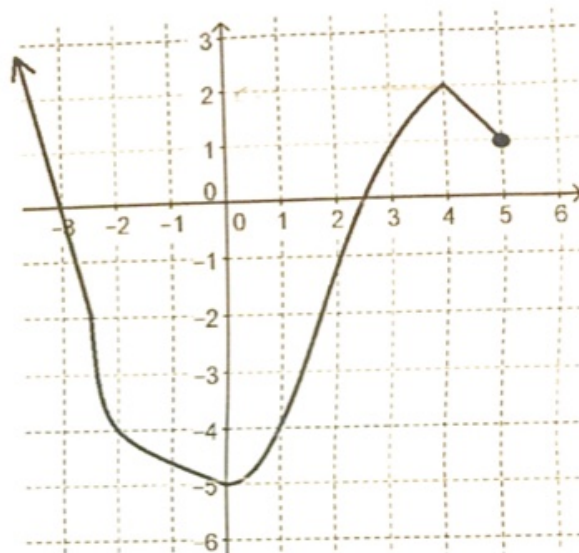
(5) ← only one value?

d. Range of f

(-5)

e. The y-intercept, written as an ordered pair

(0, -5)



2. Use the following table to answer the following questions:

x	-12	-8	4
y	15	12	3

a. Does the data represent a function? Explain why or why not.

Yes it does because it a pair of point (x, y) , ...

move to the definition

b. Is the data linear? Explain why or why not.

Yes it is because it a pair of point it can be graphic it.

c. If the data represents a linear function, write the equation for the function.

$f(x) = \frac{1}{4}x + 15$