

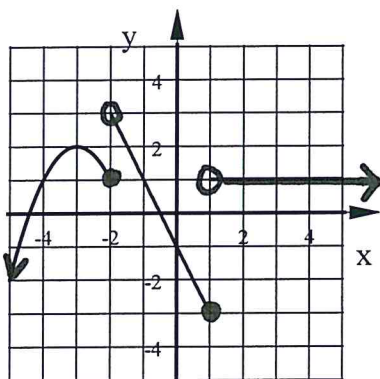
Bellwork Alg 2A Tuesday, October 25, 2016

1. Use this function $f(x) = \begin{cases} 3x^2 + 6x - 1 & \text{if } x < -4 \\ 5 - 4x & \text{if } -4 \leq x < 5 \\ 12 & \text{if } x \geq 5 \end{cases}$

- a. Find $f(-3)$ b. Find $f(-6)$ c. Find $f(7)$

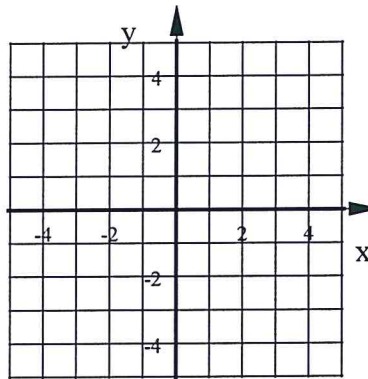
2. Use this graph.

- a) Find $f(-4)$ b) Find $f(1)$ c) Find $f(3)$



3. Graph this piecewise function

$$f(x) = \begin{cases} 2|x+2| - 4 & \text{if } -4 \leq x < 2 \\ -4x + 9 & \text{if } x \geq 2 \end{cases}$$



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Answers

1. Use this function $f(x) = \begin{cases} 3x^2 + 6x - 1 & \text{if } x < -4 \\ 5 - 4x & \text{if } -4 \leq x < 5 \\ 12 & \text{if } x \geq 5 \end{cases}$

- a. Find $f(-3)$ b. Find $f(-6)$ c. Find $f(7)$ = 12

$$5 - 4(-3) = 5 + 12 = \boxed{17}$$

$$3(-6)^2 + 6(-6) - 1 = \boxed{71}$$

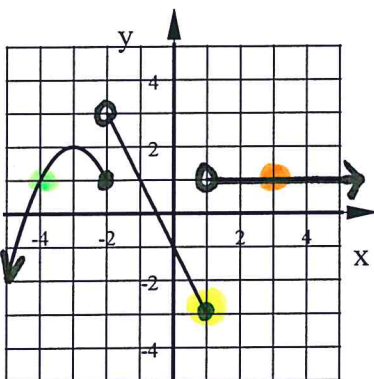
2. Use this graph.

- a) Find $f(-4)$ b) Find $f(1)$ c) Find $f(3)$

$$= 1$$

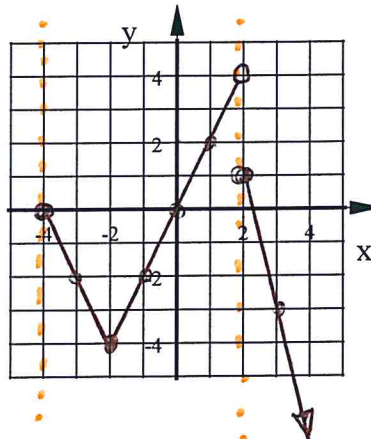
$$= -3$$

$$= 1$$



3. Graph this piecewise function

$$f(x) = \begin{cases} 2|x+2| - 4 & \text{if } -4 \leq x < 2 \\ -4x + 9 & \text{if } x \geq 2 \end{cases}$$



x	y
2	1

START AT (2,1) then use slope of -4