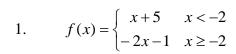
**Part I**. Carefully graph each of the following. Identify whether or not the graph is a function. Then, evaluate the graph at any specified domain value. You may use your calculators to help you graph, but you must sketch it carefully on the grid!

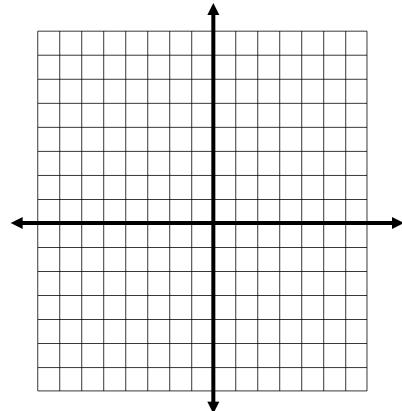


Function? Yes or No

$$f(3) =$$

$$f(-4) =$$

$$f(-2) =$$



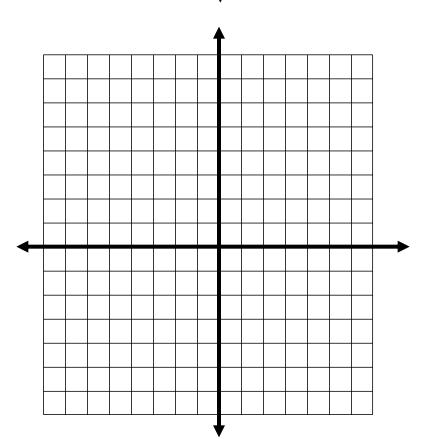
2. 
$$f(x) = \begin{cases} 2x+1 & x \ge 1 \\ \frac{x}{2} - 3 & x < 1 \end{cases}$$

Function? Yes or No

$$f(-2) =$$

$$f(6) =$$

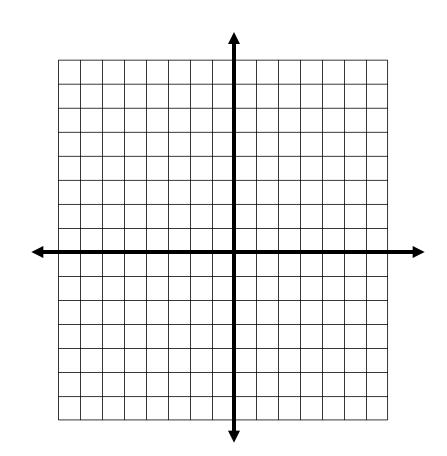
$$f(1) =$$



3. 
$$f(x) = \begin{cases} 4x - 2 & x \ge 2 \\ -\frac{x}{3} + 4 & x < 2 \end{cases}$$

Function? Yes or No

$$f(-4) =$$

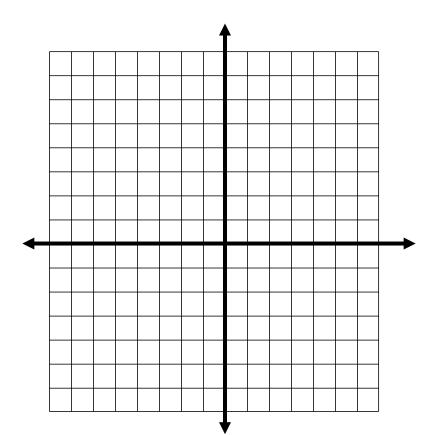


4. 
$$\begin{cases} -x+4 & x \le 0 \\ \frac{2x}{3} - 1 & 0 < x \le 5 \\ 2 & x > 5 \end{cases}$$

Function? Yes or No

$$f(-2) =$$

$$f(0) =$$

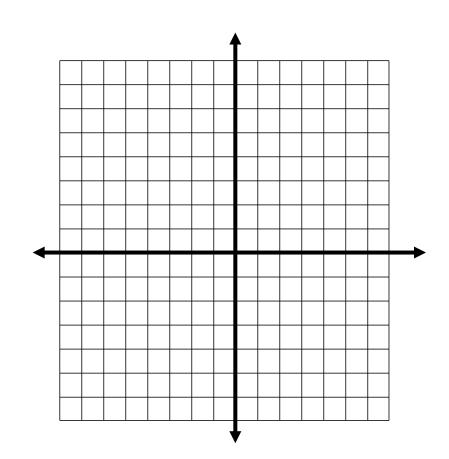


5. 
$$f(x) = \begin{cases} -x+1 & x \le 0 \\ -\frac{4x}{3} - 4 & x > 0 \end{cases}$$

Function? Yes or No

$$f(-4) =$$

$$f(0) =$$



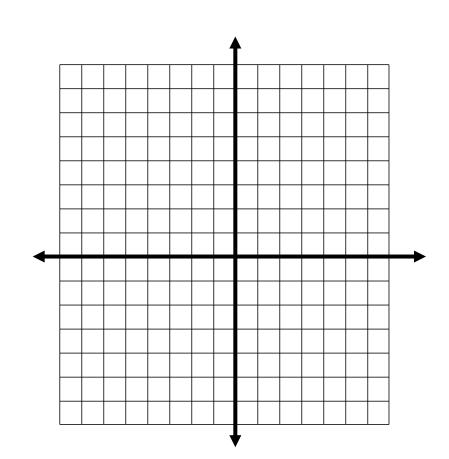
6. 
$$f(x) = \begin{cases} -3 & x \le 3 \\ 2x - 5 & x > 3 \end{cases}$$

Function? Yes or No

$$f(-4) =$$

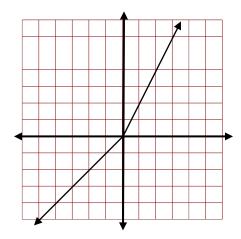
$$f(0) =$$

$$f(3) =$$

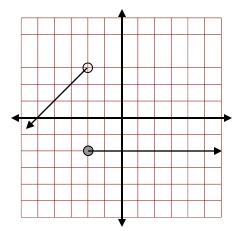


**Part II.** Write equations for the piecewise functions whose graphs are shown below. Assume that the units are 1 for every tic marc.

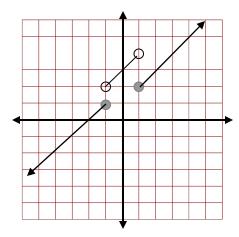
7.



8.



9.



10.

