1.) Consider the following relationship given by the formula $f(x) = \begin{cases} 2x + 6 & x < -1 \\ x^2 & x \ge -1 \end{cases}$

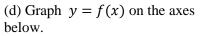
(a) Evaluate each of the following:

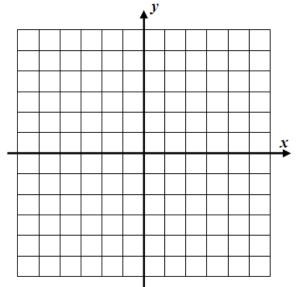
f(-2) =

$$f(3) =$$

(b) Carefully evaluate f(-1)

х	Rule/Calculation	у	(x, y)
-5			
-4			
-3			
-2			
-1			
0			
1			
2			





2.) Consider the following relationship given by the formula $f(x) = \begin{cases} -3x & x \le 0 \\ 2x-6 & x > 0 \end{cases}$

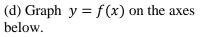
(a) Evaluate each of the following:

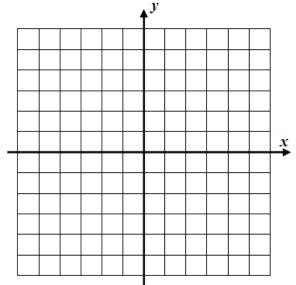
f(-1) =

f(4) =

(b) Carefully evaluate f(0)

х	Rule/Calculation	у	(x, y)
-2			
-1			
0			
1			
2			
3			
4			
5			





3.) Consider the following relationship given by the formula $f(x) = \{ -x + 1 \ x < -2 \ 3x + 1 \ x \ge -2 \}$

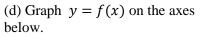
(a) Evaluate each of the following:

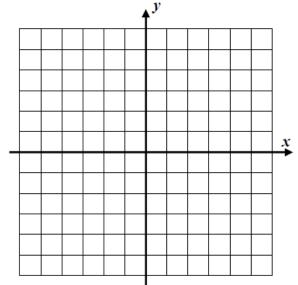
f(-4) =

$$f(0) =$$

(b) Carefully evaluate f(-2)

х	Rule/Calculation	у	(x, y)
-5			
-4			
-3			
-2			
-1			
0			
1			





4.) Consider the following relationship given by the formula $f(x) = \begin{cases} -2x - 2 & x \le 0 \\ -x^2 & x > 0 \end{cases}$

(a) Evaluate each of the following:

f(-3) =

f(1) =

(b) Carefully evaluate f(0)

х	Rule/Calculation	у	(x, y)
-4			
-3			
-2			
-1			
0			
1			
2			

