You can always use a table like the one below to help you graph an equation.

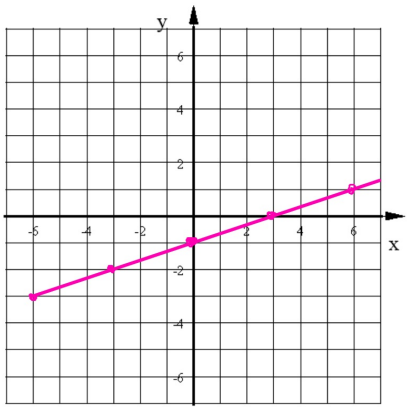
X	Y
-2	
-1	
0	
1	
2	

but sometimes you may want to or need to use other values for x.

Graph this equation: $y = \frac{1}{3}x - 1$

X	Y
~~-2~~ -6	~~-3~~ -3
~~-1~~ -3	-2
0	-1
~~1~~ 3	0
~~2~~ 6	1

Use multiples of 3 so that you don't need to round y-coord or estimate where points are located.



Describe what the graph of each should look like?

1. $y = 3x + 1$ Line

2. $y = x^2 - 6$ parabola

3. $y = -2|x| + 5$ V-shape

4. $y = (x-1)^2 + 3$ parabola

5. $y = |x + 2| - 4$ V-shape

6. $y = -2x + 2$ Line