

## Warm Up-

Fill in the following tables given each of the equations.

1.  $y = 2x + 1$

x	y
-1	-1
0	1
1	3

$2(-1) + 1$

2.  $y = -x + 2$

x	y
-1	3
0	2
1	1

3.  $y = -3x - 1$

x	y
-1	2
0	-1
1	-4

So far, all the lines you have graphed have been in the form:

$$y = mx$$

Starting today, the lines you are going to graph will be in the form:

$$y = mx + b$$

The  $m$  is the slope of ~~the~~ the line

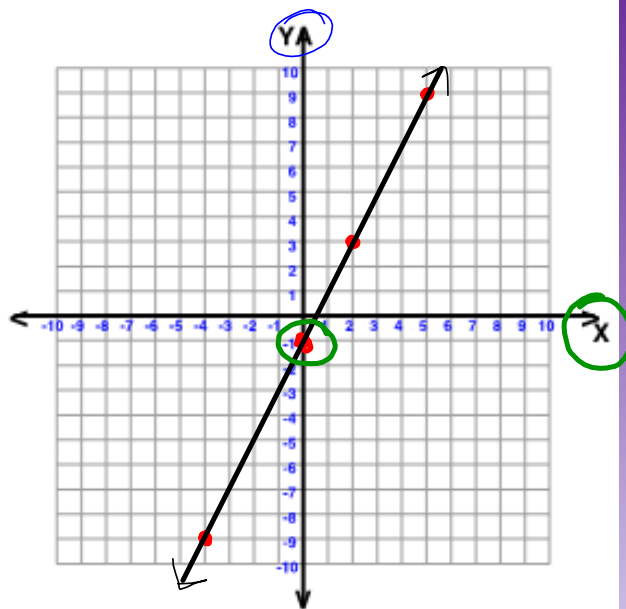
The  $b$  is the y-intercept  
(cross y-axis)

Example 1:

Make a table for the line  $y = 2x - 1$ 

$$y = mx + b$$

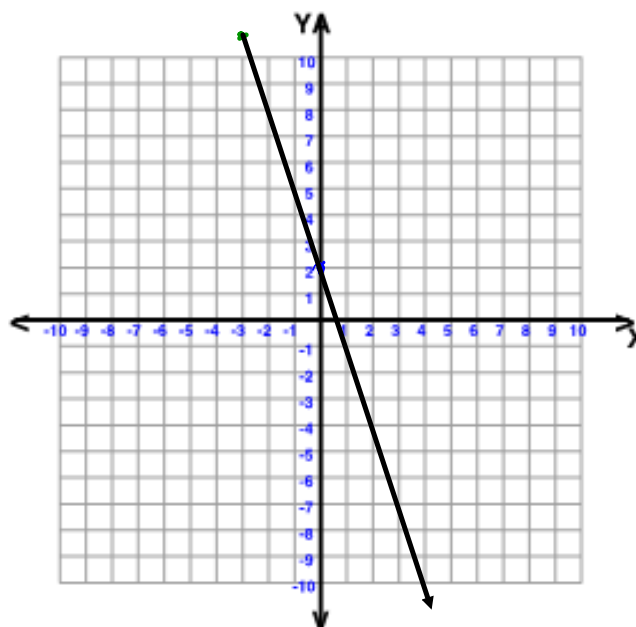
x	$2x - 1$	y
-4	$2(-4) - 1$	-9
0	$2(0) - 1$	-1
2	$2(2) - 1$	3
5	$2(5) - 1$	9



Example 2:

Make a table for the line  $y = -3x + 2$

x	$-3x + 2$	y
-5	$-3(-5) + 2$	17
-3	$-3(-3) + 2$	11
0	$-3(0) + 2$	2



Example 3:

Make a table for the line  $y = -x - 3$ 

$-x-3$

x	<del>xxxxx</del>	y
-6	$-(-6)-3$	3
-2	$-(-2)-3$	-1
0		-3
3	$-(3)-3$	-6

