## Warm Up-

Graph each on your white board.

$\frac{2}{3}$, 3, 1

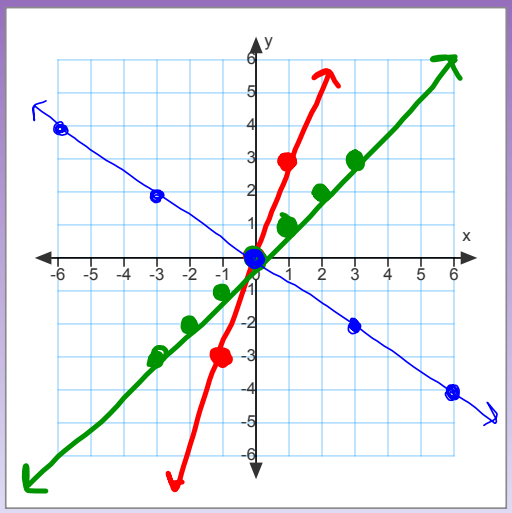
3, 1, $\frac{2}{3}$

slope: $\frac{1}{1}$

$y = x$

$y = 3x$

slope: $\frac{3}{1}$




$y = -\frac{2}{3}x$

slope: $\frac{2}{-3}$

# Warm Up-

Fill in the following tables given each of the equations.

1. $y = 2x + 1$

| x | y |
|---|---|
| -1 | |
| 0 | |
| 1 | |

2. $y = -x + 2$

| x | y |
|---|---|
| -1 | |
| 0 | |
| 1 | |

3. $y = -3x - 1$

| x | y |
|---|---|
| -1 | |
| 0 | |
| 1 | |

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 a the line

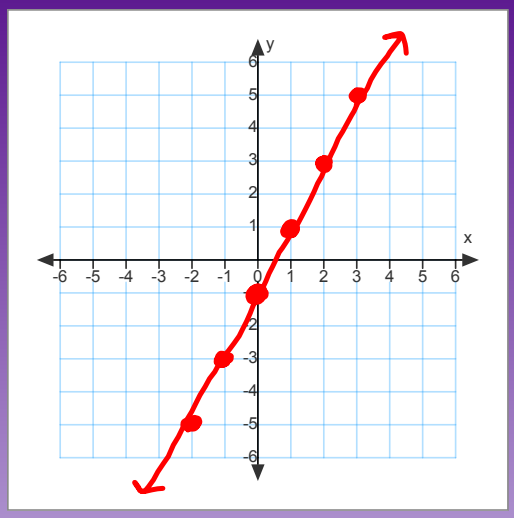
The b is the y-intercept

## Graph the line

$$y = 2x - 1$$

Slope: $\frac{2}{1}$

y-intercept: (0 , -1)

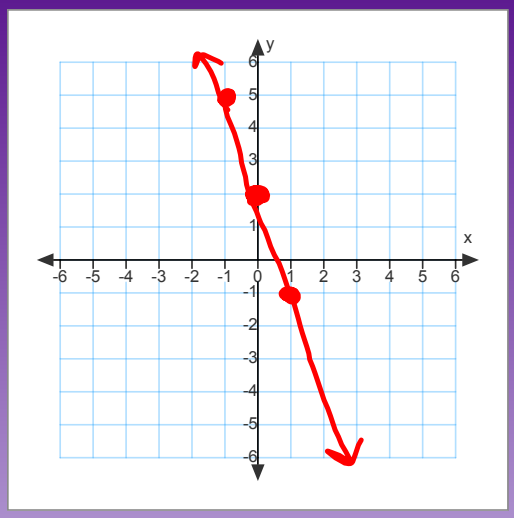


## Graph the line

$$y = -3x + 2$$

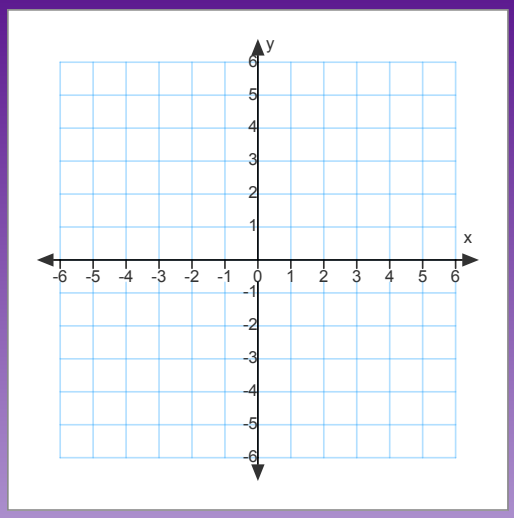
→ Slope: $\frac{-3}{1}$

y-intercept: (0 , 2)



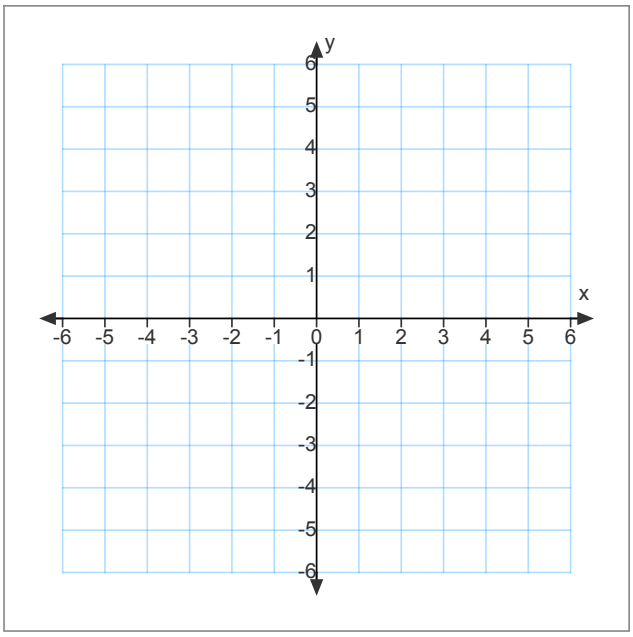
## Graph the line

$$y = -x - 2$$




Slope:_____

y-intercept: (__ , __)


y
x
6
5
4
3
2
1
-1
-2
-3
-4
-5
-6
-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6