Warm up-

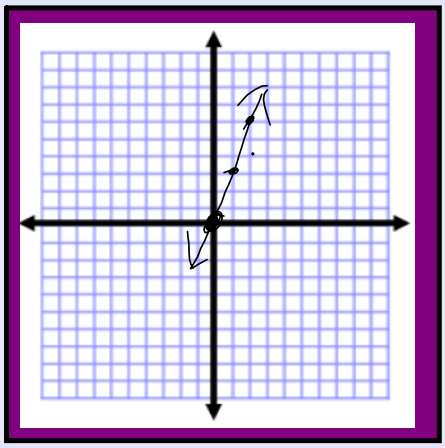
1. Write the definition of slope as you remember it

2. What point do all the graphs that we have graphed go through?

3. Graph the following lines and tell me the slope.

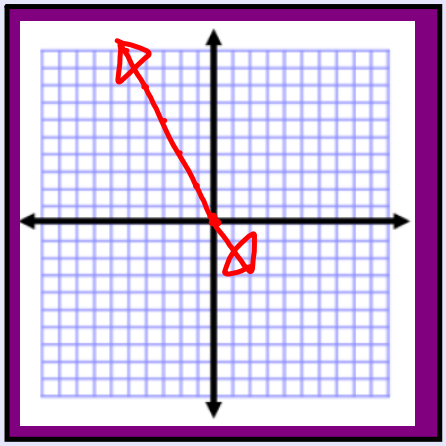
a. $y = 3x$

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



b. $y = -2x$

slope= $\frac{-2}{1}$



White Board P

$y = x$

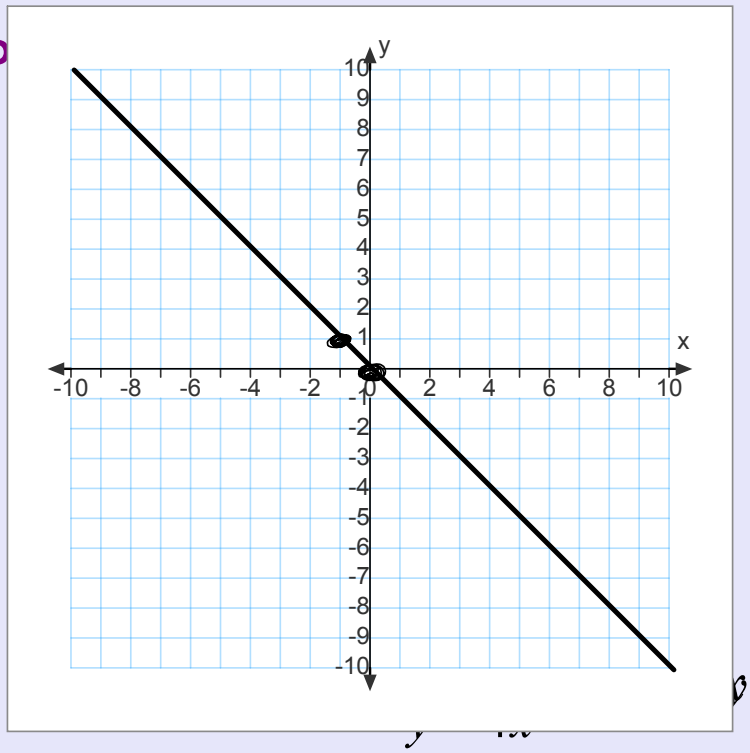
$y = 2x$

$y = -5x$

$y = -3x$

$y = -6x$

$y = 5x$



$\frac{2}{1}$

$y = 3x$

$y = -x$

Quiz

Remember-No corrections are allowed if the quiz is not attempted and completed to the best of your ability

4.3- Graphing y = mx when m is a fraction

Look at the equation of the line below. Write down three things you think the line will look like.

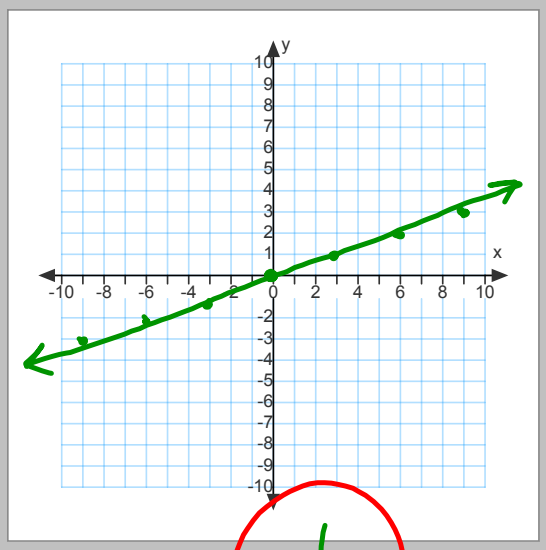
$$y = \frac{1}{3}x$$

1. 
2. steep
3.

Now try and graph the line:

$$y = \frac{1}{3}x$$

x	y



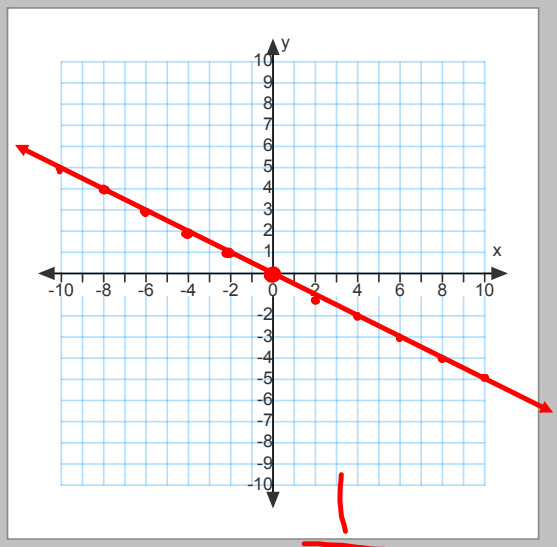
Slope = $\frac{1}{3}$

$\frac{\text{rise}}{\text{run}} = \frac{1}{3}$

Another Example

$$y = -\frac{1}{2}x$$

x	y

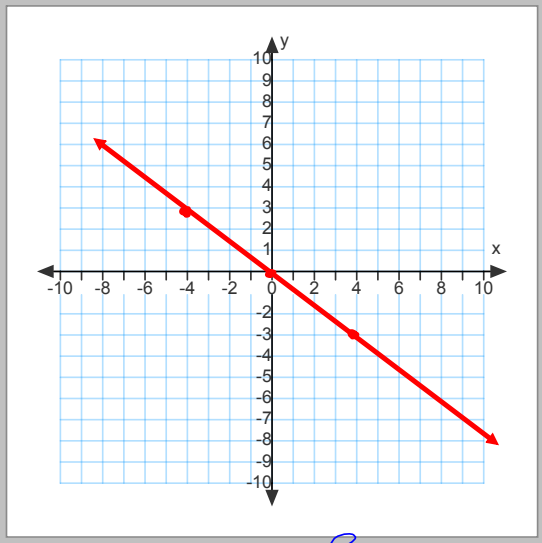


Slope = $-\frac{2}{1}$

Another Example

$$y = -\frac{3}{4}x$$

x	y



Slope = $\frac{3}{-4}$

Independent Work

Work on your worksheet