

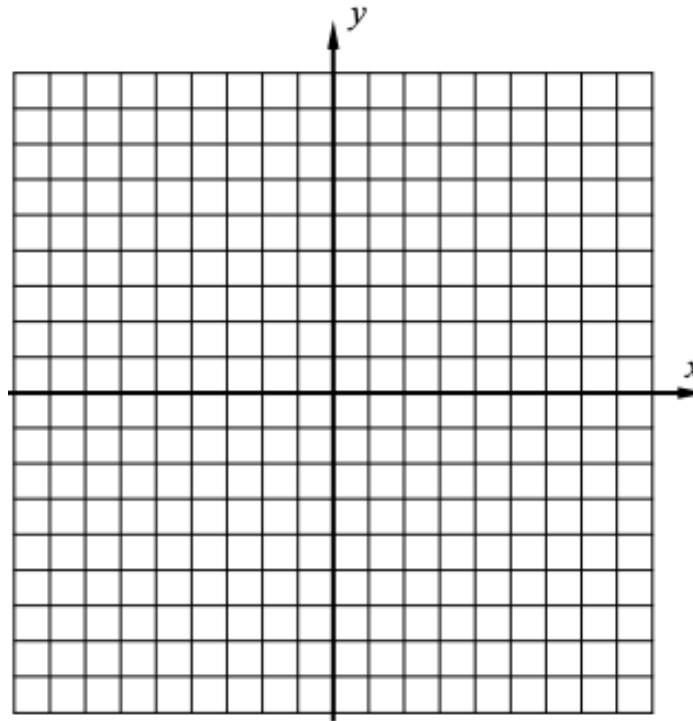
I can rearrange an equation into slope-intercept form & graph a linear function!

11/18/19 'A'



Do Now: Pg23 in packet #5a

(a) $2y - 3x = 10$



Slope: _____

y-intercept: _____

**Blue Weekly
HW Sheet**



**Monday
Problems
AND VOCAB
on back!**

I can rearrange an equation into slope-intercept form.

11/18/19 'A'

5. Rewrite each of the following linear equations in equivalent $y = mx + b$ (slope-intercept) form. Identify the slope and the y-intercept and then graph on the grid given. Label each line with its original equation.

(a) $2y - 3x = 10$

$$\begin{array}{r} 2y - 3x = 10 \\ +3x \quad +3x \\ \hline 2y = 3x + 10 \\ \frac{2y}{2} = \frac{3x}{2} + \frac{10}{2} \\ y = \frac{3}{2}x + 5 \end{array}$$

Slope: $\frac{3}{2}$ \uparrow
 \rightarrow

y-intercept: 5

(b) $x + 2y = 6$

Slope: _____

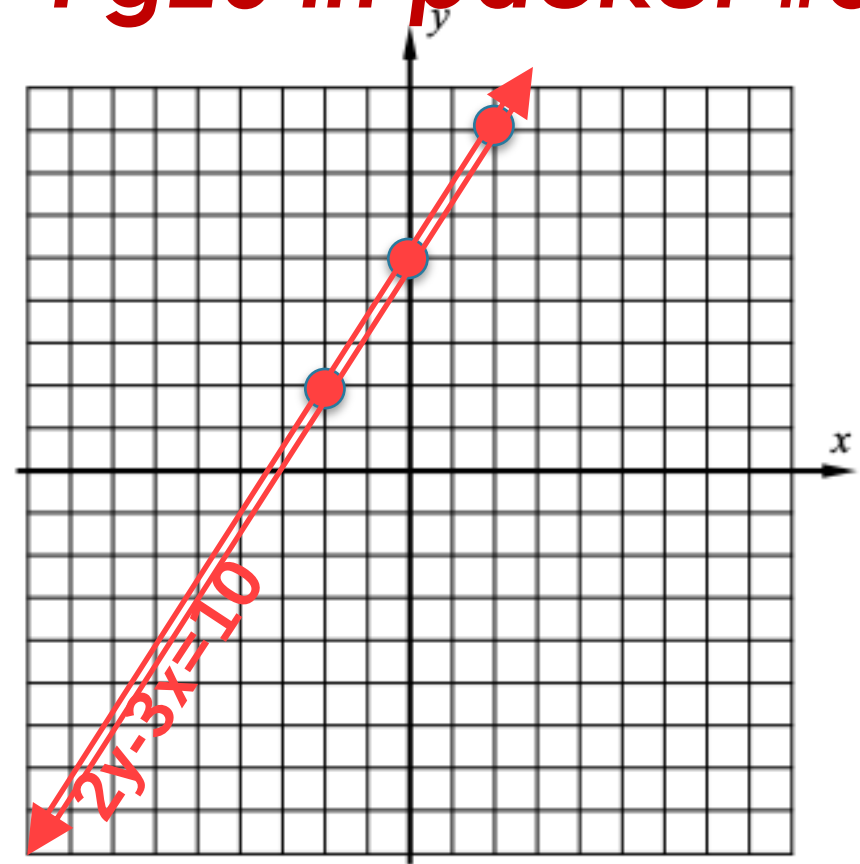
y-intercept: _____

(c) $3y + 12 = 5x$

Slope: _____

y-intercept: _____

Pg23 in packet #5



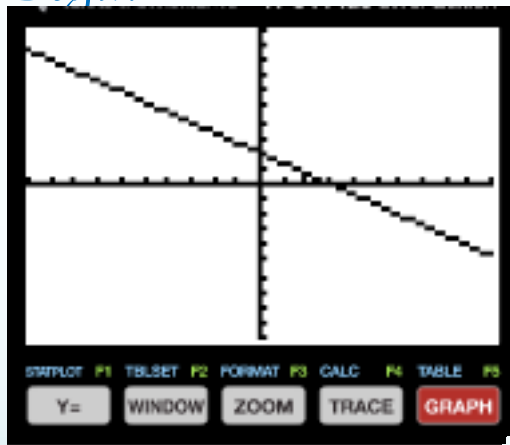
Re-write each of the following linear equations in slope-intercept form ($y = mx + b$). Identify the slope and the y-intercept and graph the line on the grid. $y = mX + b$

8) $m = \frac{-2}{3}$

Move

$b = 2$

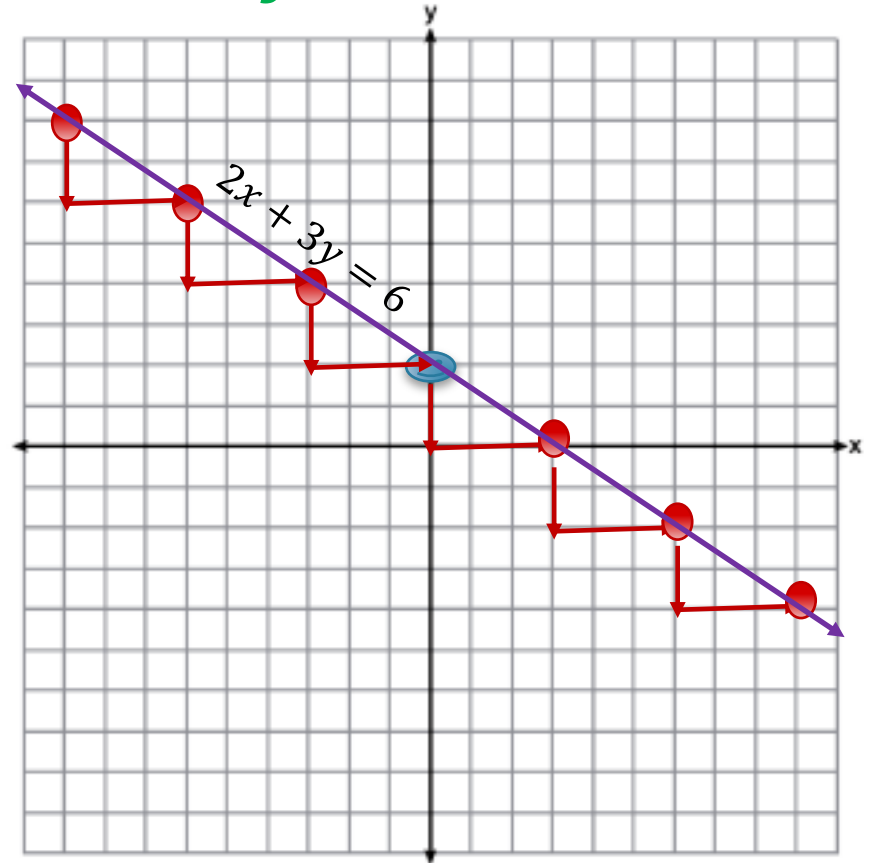
Begin



$$2x + 3y = 6$$

$$\frac{3y}{3} = \frac{-2x + 6}{3}$$

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



proportional or non-proportional

Partner Work... Complete Worksheet!

Show all work getting your equation into slope-intercept form, if needed!

You may graph using m & b or using the graph- whichever you prefer!

1. What is **slope-intercept form** of a linear equation?

Convert the equations into slope-intercept form.

2. $6x + 3y = 6$

3. $5x - y = -5$

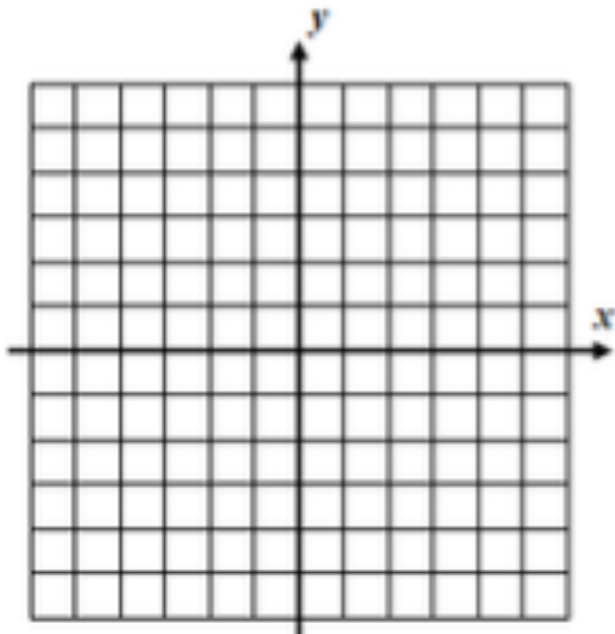
Partner Work... Complete Worksheet!

Show all work getting your equation into slope-intercept form, if needed!

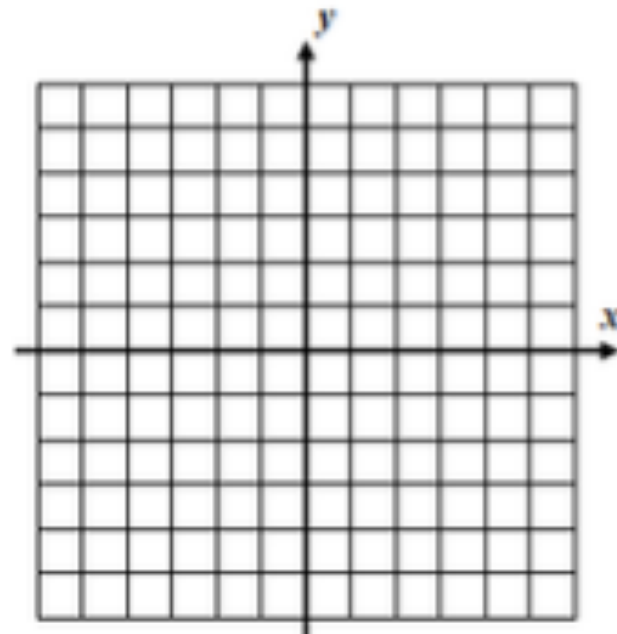
You may graph using m & b or using the graph- whichever you prefer!

Show either $m=$ and $b=$ OR the table you used to graph!

4. $y = -x + 3$



5. $y = -\frac{1}{4}x + 3$



Partner Work... Complete Worksheet!

Show all work getting your equation into slope-intercept form, if needed!

You may graph using m & b or using the graph- whichever you prefer!

Show all work & either $m=$ and $b=$ OR table used to graph!

6. $x + 2y = 4$

7. $2x - 4y = 8$

