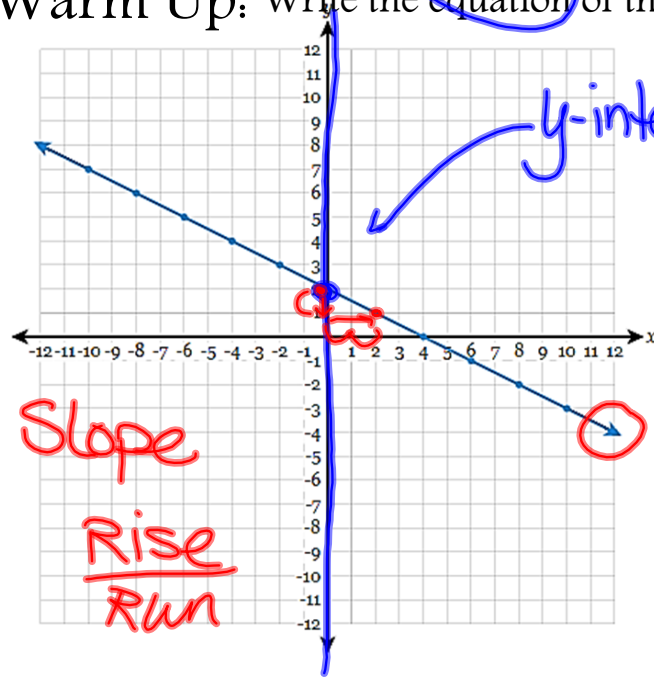
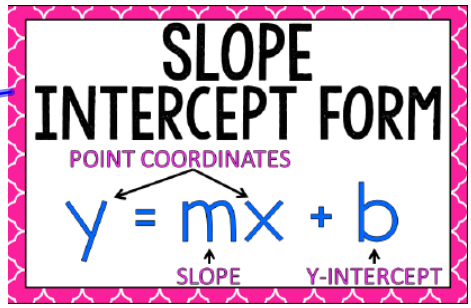
Warm Up: Write the equation of the line shown below

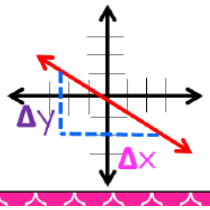




$y = -\frac{1}{2}x + 2$

Graphing Lines

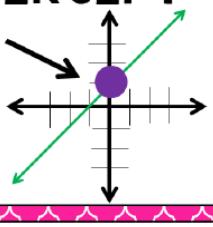
SLOPE

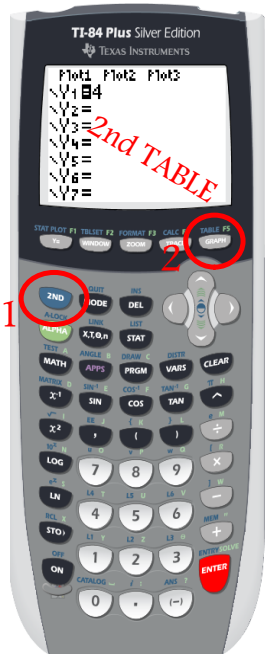


Ratio of vertical change to horizontal change

Y-INTERCEPT

Where a line crosses y-axis





This button will allow you to type in an equation in y= form and graph it to see what it looks like

These buttons will allow you to see the table of points that are on the function.

x	y	
		(x,y)
		(___,___)
		(___,___)
		(___,___)
		(___,___)

$$y = -\frac{1}{2}x - 3$$

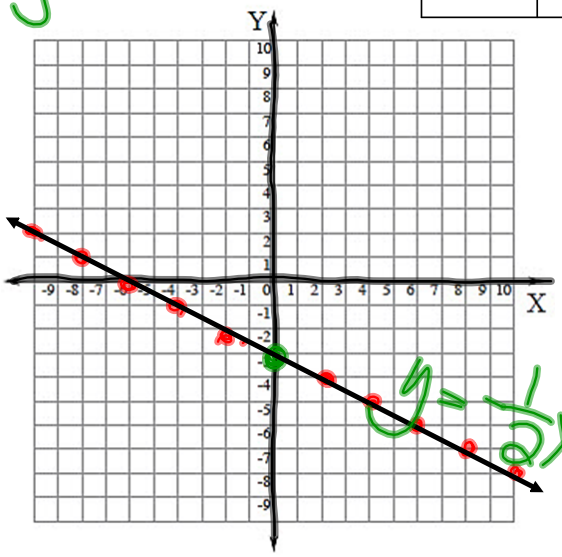
y-int: -3 (b) y-axis begin

slope: -1/2

down 1

Right 2

x	y	
		(x,y)
		(__,__)
		(__,__)
		(__,__)
		(__,__)



$y = -\frac{1}{2}x - 3$

1) $y = \frac{1}{4}x - 1$

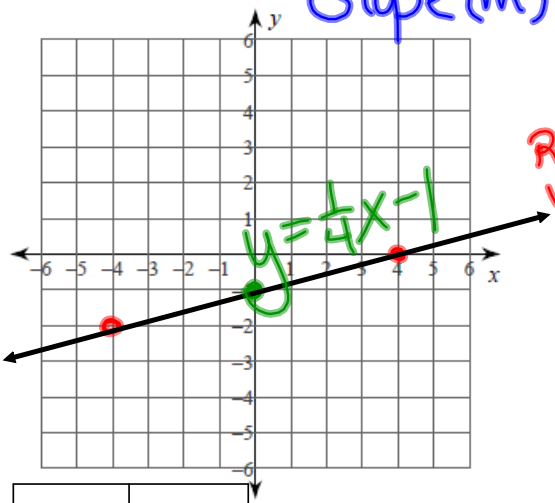
y-int (b) = -1

Slope (m) = $\frac{1}{4}$

up 1

Right 4

$y = \frac{1}{4}x - 1$



down 1

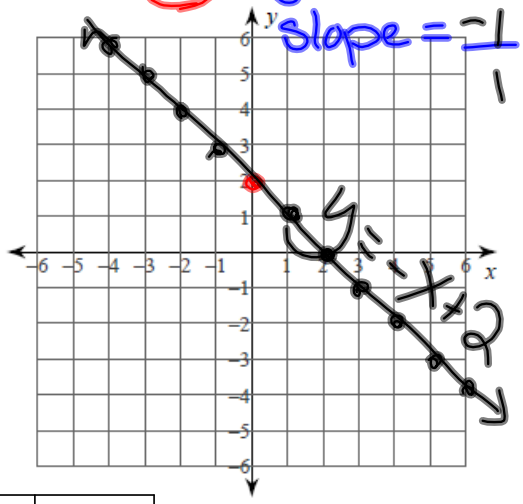
Right 1

x	y	
		(x,y)
		(__,__)
		(__,__)
		(__,__)
		(__,__)

2) $y = -x + 2$

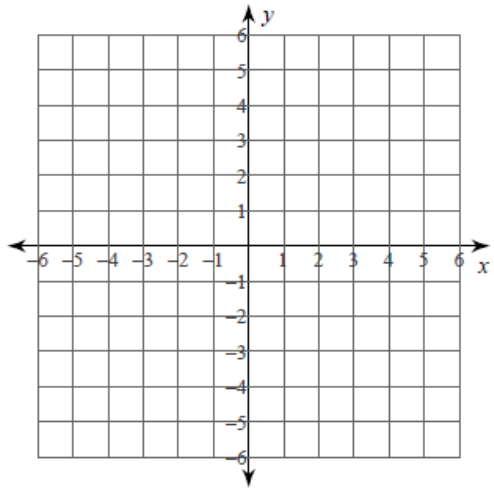
y-int = 2

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



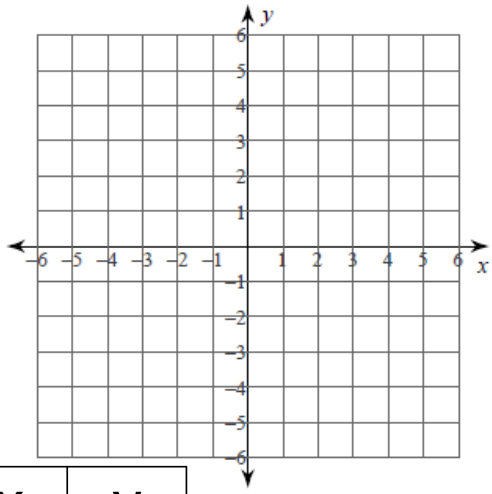
x	y	
		(x,y)
		(__,__)
		(__,__)
		(__,__)
		(__,__)

3) $y = x + 1$



x	y	
		(x,y)
		(__,__)
		(__,__)
		(__,__)
		(__,__)

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



x	y	
		(x,y)
		(__,__)
		(__,__)
		(__,__)
		(__,__)

Examples: Graph the lines below.

1. $y = 3x - 5$

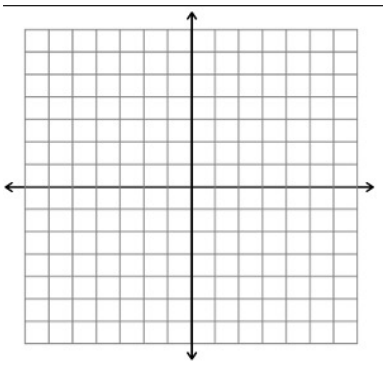
x	y

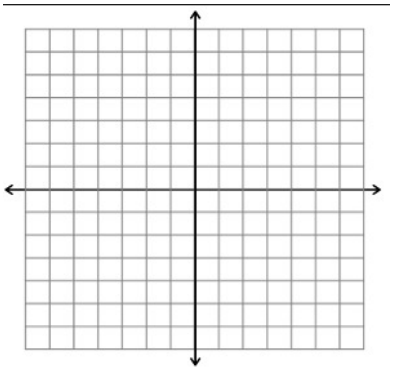
2. $y = x + 2$

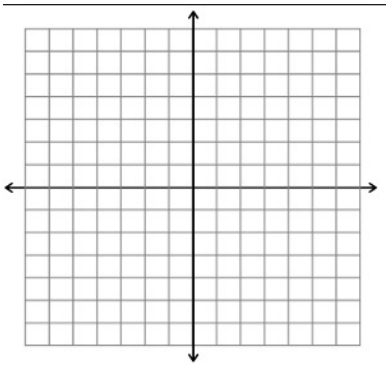
x	y

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

x	y







Tear off and complete the exit ticket at the end of the packet!!!

Name: _____

Score: _____/6

EXIT TICKET

(Graphing in Slope-Intercept)

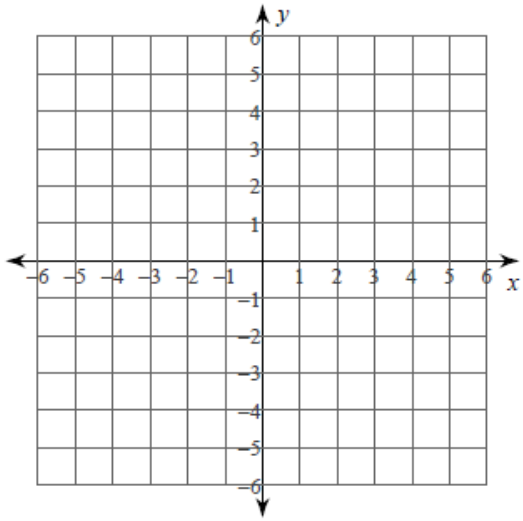
*tear this page off and

turn it in before you

leave class today*

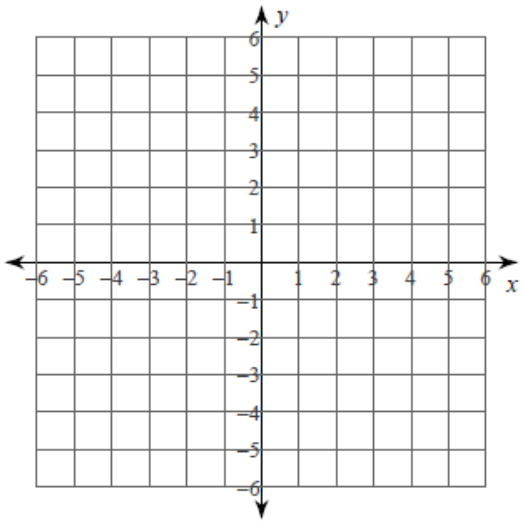
Graph each of the lines below!

$$y = -2x + 3$$



x	y	
		(x,y)
		(__,__)
		(__,__)
		(__,__)
		(__,__)

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



x	y	
		(x,y)
		(__,__)
		(__,__)
		(__,__)
		(__,__)