I can rearrange an equation to slope-intercept form & graph using graphing calculator!

11/15/18 'B'

Do Now:

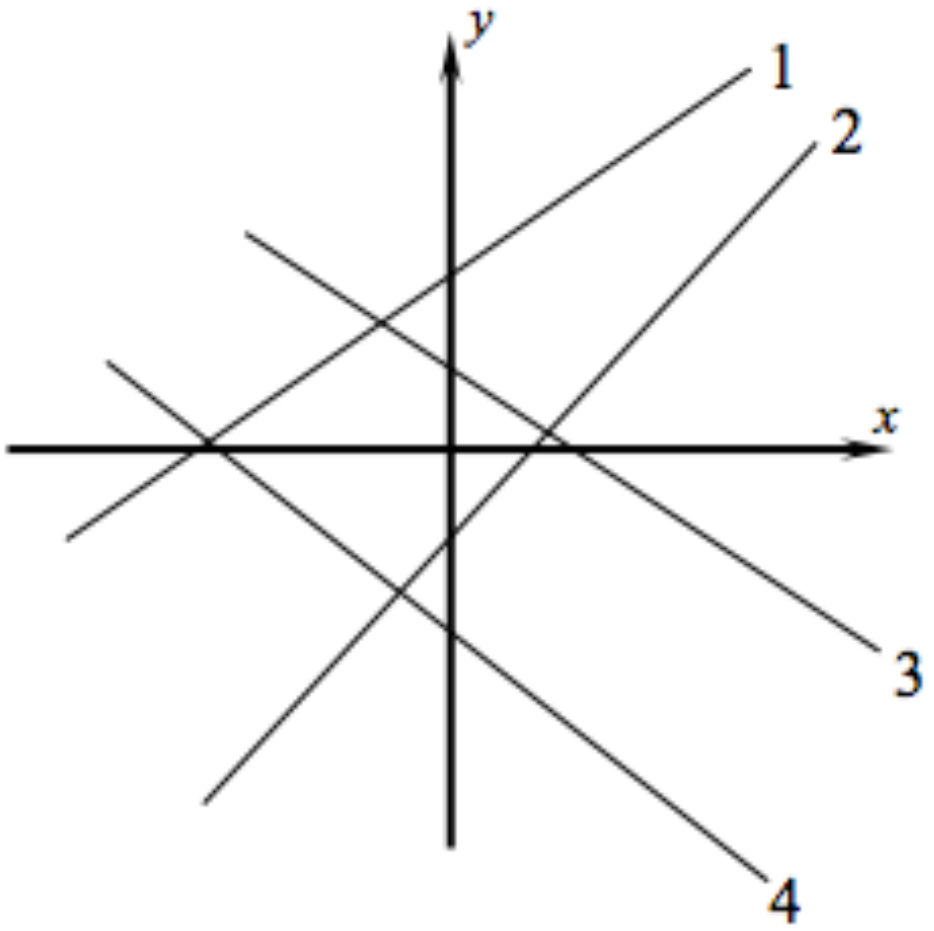
Page 20 in Packet
Exercise 1 and 2

Have a great weekend!

☺

Do Now:
Page 20 in Packet Exercise 1

Equation	
$y = -\frac{2}{3}x + 3$	_____
$y = x + 5$	_____
$y = -2x - 7$	_____
$y = 2x - 3$	_____



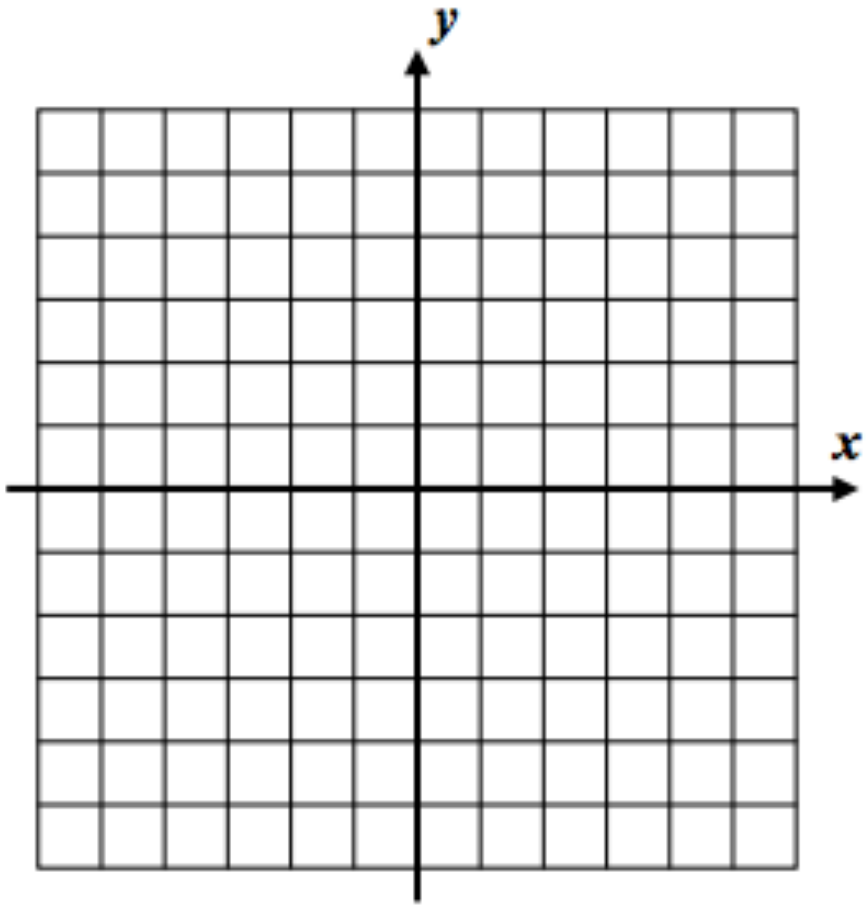
Do Now:

Page 20 in Packet Exercise 2

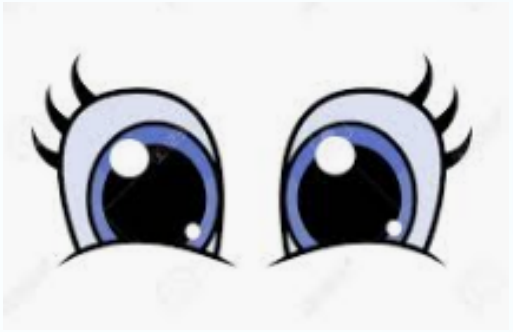
$$y = \frac{3}{2}x - 3$$

Slope: _____

y-intercept: _____

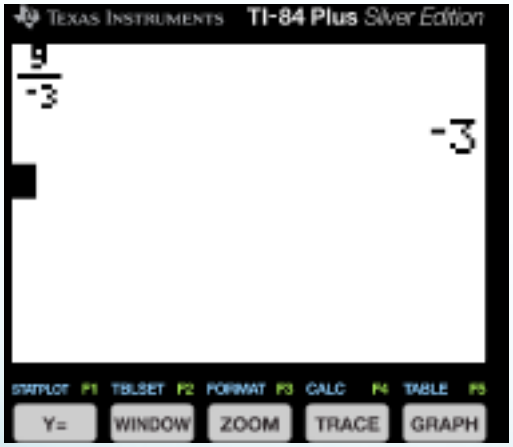


Just Watch



Transform the linear function into slope-intercept form and identify the slope and y-intercept

$y = mx + b$



$$2x - 3y = 9$$
$$-2x \qquad -2x$$

$$\frac{-3y}{-3} = \frac{-2x}{-3} + \frac{9}{-3}$$

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

Slope (m) = $\frac{2}{3}$ (↑ 2, → 3)

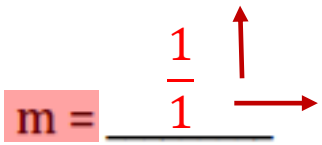
Y-intercept (b) = -3

Guided Practice –Looseleaf…

Transform the linear function into slope-intercept form and identify the slope and y-intercept

$y = mx + b$

1)



$m = \frac{1}{1}$

$b = 0$

$y - 1x = 0$

$+1x \quad +1x$

$y = 1x$

You Try – Packet Page 21 #5a

Rearrange the following linear equations into *y=mx+b* form and identify the slope and y-intercept.

(a) $3y - 3x = 15$

m= _____

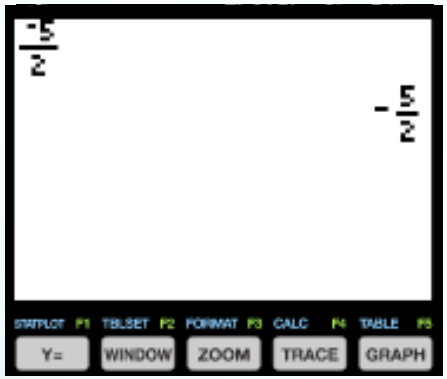
b= _____

Guided Practice – On Looseleaf

Transform the linear function into slope-intercept form and identify the slope and y-intercept

$y = mx + b$

4)



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

$b = -\frac{5}{2}$

$2y + 5 = -3x$

$-5 \quad -5$

$\frac{2y}{2} = \frac{-3x}{2} - \frac{5}{2}$

$y = \frac{-3}{2}x - \frac{5}{2}$

You Try – Packet Page 21 #5b

Rearrange the following linear equations into *y=mx+b* form and identify the slope and y-intercept.

(b) $2y + 5x = -8$

m= _____

b= _____

Guided Practice – On Looseleaf

Transform the linear function into slope-intercept form and identify the slope and y-intercept

$y = mx + b$

5)

$m = \frac{2}{1}$

$b = -6$

$2x - y = 6$

$-2x \quad -2x$

$-1y = -2x + 6$

$\frac{-1y}{-1} = \frac{-2x}{-1} + \frac{6}{-1}$

$y = 2x - 6$

Partner Task – Packet p.21 #5c-d

Rearrange the following linear equations into *y=mx+b* form and identify the slope and y-intercept.

$y = mx + b$

(c) $X - 3y = 6$

(d) $6x - 4y = -20$