

Name: _____ Hour: _____ Date: _____

Graphing Linear Equations in Slope-Intercept and Standard Form Review

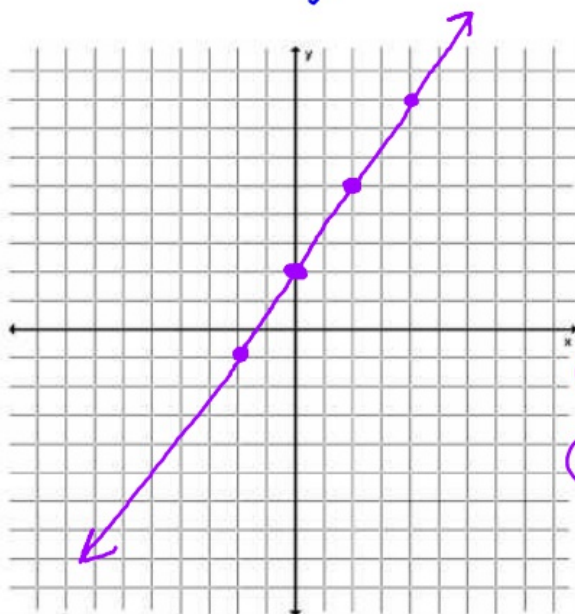
Notes

Slope Intercept Form:

$$y = mx + b$$

$m = \text{slope} = \frac{\text{rise}}{\text{run}}$
 $b = y\text{-intercept}$

1)



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

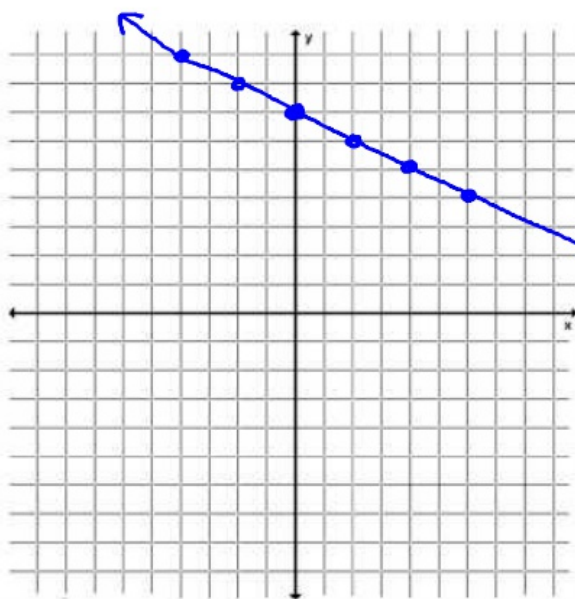
$$m = \frac{3}{2} = \frac{\text{up } 3}{\text{right } 2}$$

$$b = 2$$

① plot "b"

② use slope to plot more points

2)



$$y = -\frac{1}{2}x + 7$$

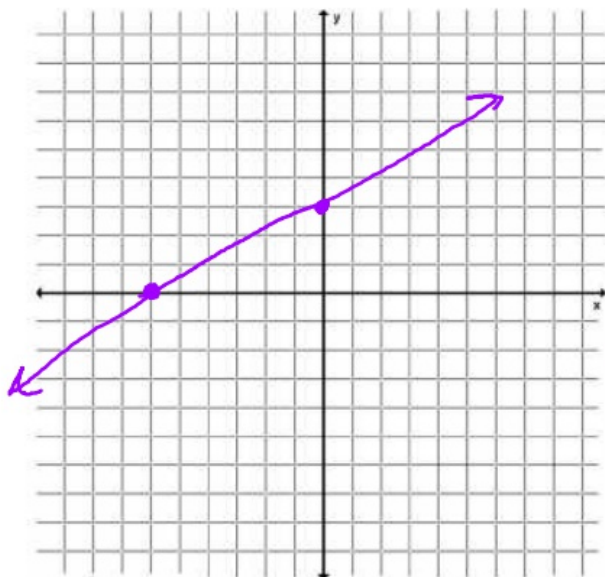
$$m = -\frac{1}{2} = \frac{\text{down } 1}{\text{right } 2}$$

$$b = 7$$

Standard Form:

$$Ax + By = C$$

3)



Graph using intercept

$$x - 2y = -6$$

x-int (plug 0 in for y)

$$x - 2(0) = -6$$

$$x = -6 \quad (-6, 0)$$

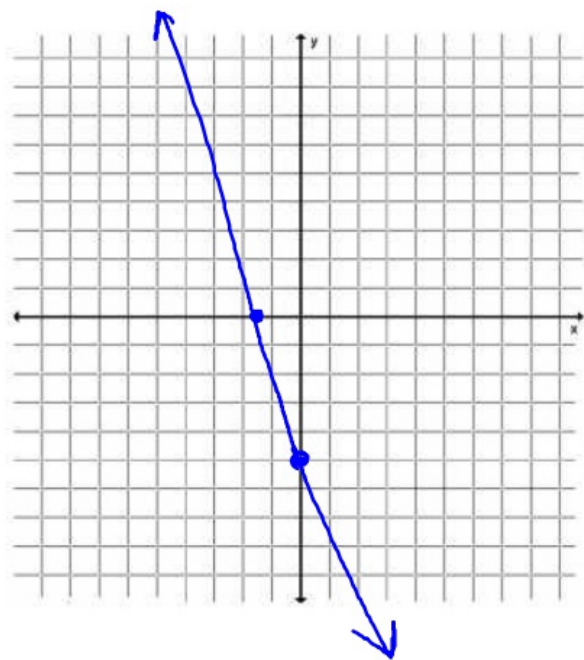
y-int (plug in 0 for x)

$$0 - 2y = -6$$

$$\frac{-2y}{-2} = \frac{-6}{-2}$$

$$y = 3 \quad (0, 3)$$

4)



$$7x + 2y = -10$$

x-int (plug 0 for y)

$$7x + 2(0) = -10$$

$$\frac{7x}{7} = \frac{-10}{7}$$

$$x = -\frac{10}{7} \quad (-\frac{10}{7}, 0)$$

y-int (plug 0 for x)

$$7(0) + 2y = -10$$

$$\frac{2y}{2} = \frac{-10}{2}$$

$$y = -5 \quad (0, -5)$$