P. 16-17   Graphing Slope-Intercept Form   2.3

Warm-up:

Get out your homework. Working with a partner complete 2.3 Slope and Slope Intercept Form Practice worksheet

P. 16-17   Graphing Slope-Intercept Form   2.3

Warm-up : Find the <u>slope</u> of the line containing these points

p. 16

$$x_1 \ y_1 \qquad x_2 \ y_2$$

1. (-3, -2) and (7, -5)   2. (8, 3) and (10, 5)

$$M = \frac{-5-(-2)}{7-(-3)}$$

$$M = \frac{5-3}{10-8}$$

$$M = \frac{-3}{10}$$

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

Recall...

Slope intercept form:

$y = m x + b$

↑ slope   ↑ y-intercept

Identify the slope and y-intercept of each equation

1. $y = 3x + 5$

m slope: 3

b y-int: 5

2. $y = 2/3 x - 4$ p. 17

slope: $\dfrac{2}{3}$

y-int: -4

3. $y = -x - 4$

slope: -1

y-int: -4

4. $y = 2$ $y = 0x + 2$

slope: 0

y-int: 2

$y = mx + b$

Special Cases!

H   O   Y

Horizontal Lines have a Slope of **0**
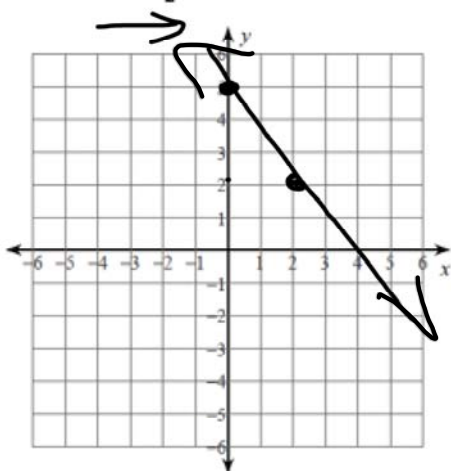and an equation **y** = #

V   U   X

Vertical Lines have a Slope of **Undefined**
and an equation **x** = #

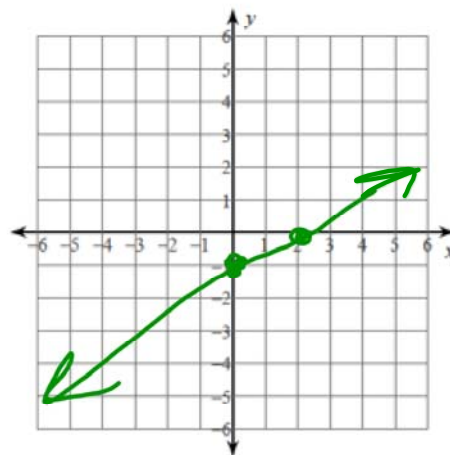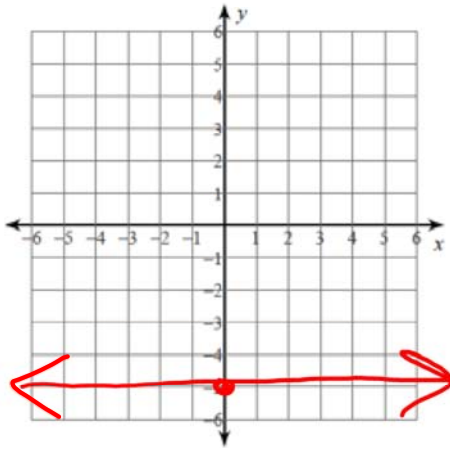Graph $$y = mx + b$$

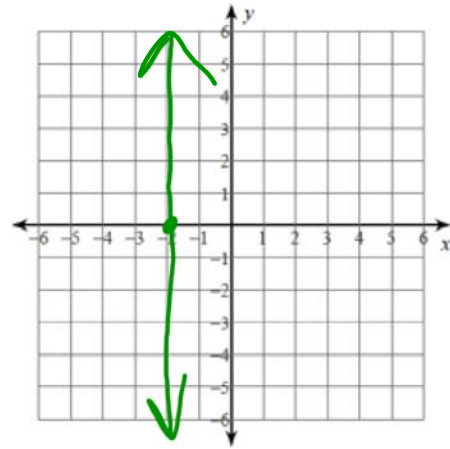1. $y = -\dfrac{3}{2}x + 5$

2. $y = \dfrac{1}{2}x - 1$

Graph

3. $y = -5$

4. $x = -2$

Line Gems

Homework:

Graphing Lines in Slope-Intercept Form