

If you do NOT yet have a textbook, please go to the library NOW to pick it up.

Please return the signed syllabus as soon as possible, if you need a new copy, please get one from the white bin.

p. 14-15 Slope & Slope-Intercept Form 2.3

Warm-up - Evaluate the following:

P. 14

$$1. \frac{(1 - 4)}{(3 - (-6))}$$
$$\frac{-3}{9} = -\frac{1}{3}$$

$$2. \frac{(-4 - (-4))}{(10 - 3)}$$
$$\frac{0}{7} = 0$$

$$3. \frac{(-2 - 5)}{(-12 - 2)}$$
$$\frac{-7}{-14} = \frac{1}{2}$$

$$4. \frac{(2 - 6)}{(6 - 6)}$$
$$\frac{-4}{0} \text{ undefined}$$

<p style="text-align: center;"><u>Slope</u></p> $m = \frac{y_2 - y_1}{x_2 - x_1}$	<p style="background-color: yellow; display: inline-block; padding: 2px 5px;">P. 15</p> <p style="text-align: right;"><u>Slope-Intercept Form</u></p> $y = mx + b$
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Use the slope formula

1. Slope of Line a

$$m = \frac{2 - (-4)}{-2 - (-4)}$$

$$m = \frac{6}{2} = 3$$

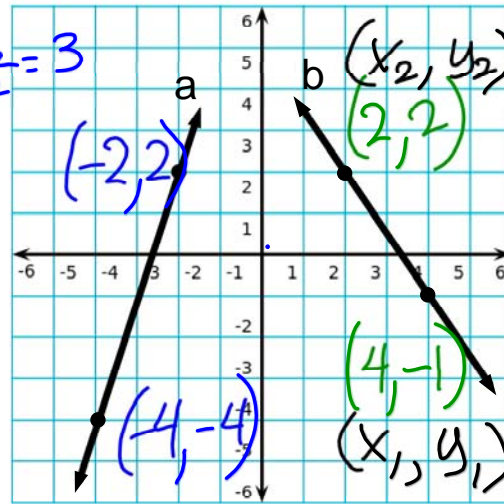
2. Slope of Line b

$$m = \frac{2 - (-1)}{2 - 4}$$

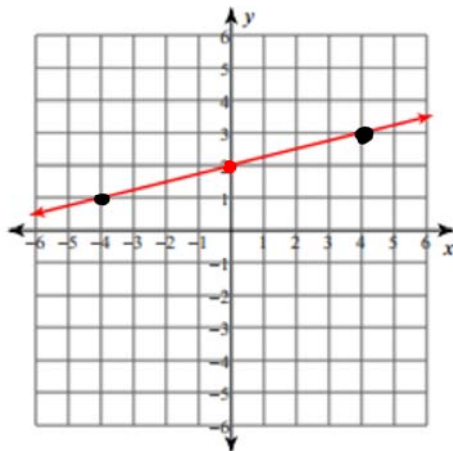
$$m = \frac{3}{-2}$$

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

$$\frac{6}{2} = 3$$



3.



p. 15

y-int: $(0, 2)$

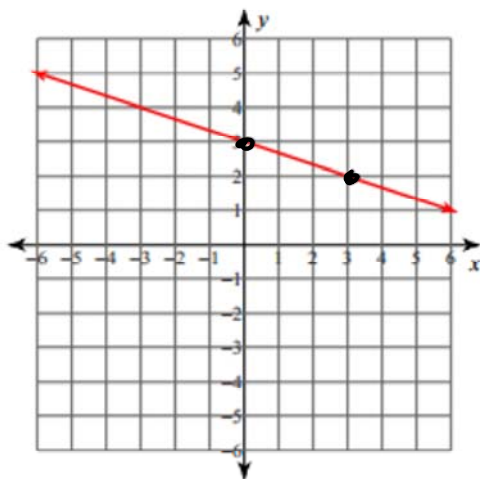
Slope: $\frac{1}{4}$ $\frac{\text{rise}}{\text{run}}$

Equation: $y = \frac{1}{4}x + 2$

$$y = mx + b$$

4.

p. 15



y-int: $(0, 3)$

Slope: $-\frac{1}{3}$

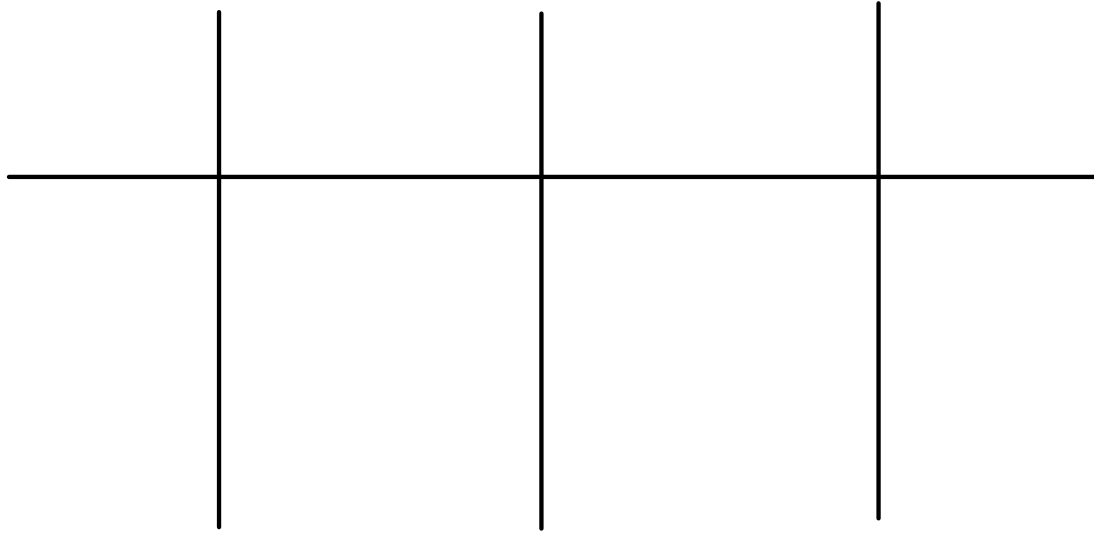
Equation: $y = -\frac{1}{3}x + 3$

Exit Activity -- Everyone will receive 1 card. p. 14

Find the slope of the line connecting your ordered pair with your partner's ordered pair. Do this 3 times.

Show your work on page 14

	(Partner's ordered pair)	(Partner's ordered pair)	(Partner's ordered pair)
(your ordered pair)	Slope $m = \frac{y_2 - y_1}{x_2 - x_1}$	Slope	Slope



Homework - 2.3 Worksheet