

Name:

UNIT 4 DAY 1 - HOMEWORK

(1) VOCABULARY: The ratio of the rise to the run between any 2 points on a nonvertical line is called the slope

WRITING EQUATIONS: Write an equation of the line with the given slope and y-intercept. $y = mx + b$

(2) slope: 1 m

(3) slope: -7

(4) slope: $\frac{3}{4}$

y-intercept: 5 b

y-intercept: 1

y-intercept: -6

$y = 1x + 5$

$y = -7x + 1$

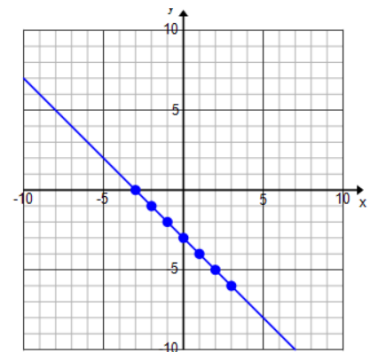
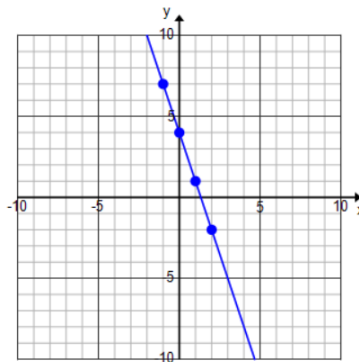
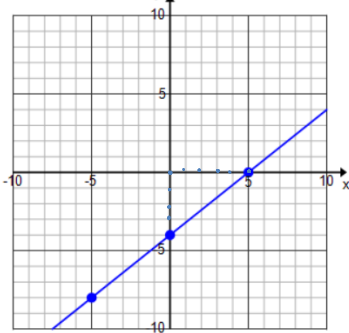
$y = \frac{3}{4}x - 6$

WRITING EQUATIONS: Write an equation of the line shown.

(5) Equation: $y = \frac{4}{5}x - 4$
 $b = -4$ $m = \frac{4}{5}$

(6) Equation: $y = -3x + 4$

(7) Equation: $y = -x - 3$



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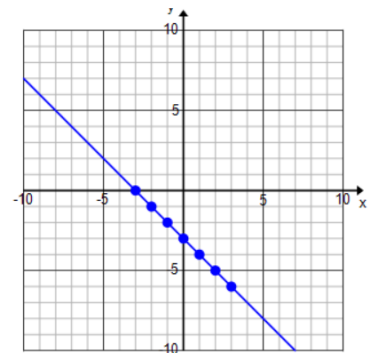
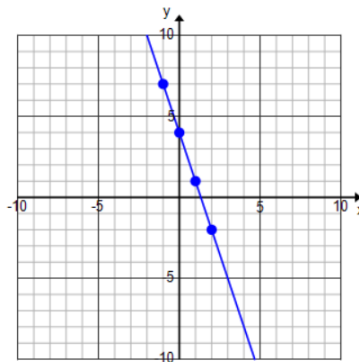
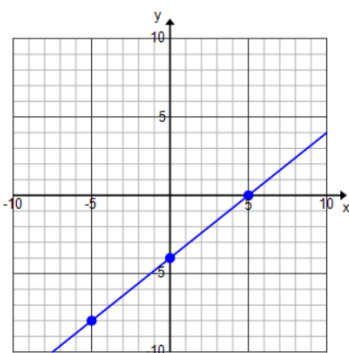
y-intercept: -6

WRITING EQUATIONS: Write an equation of the line shown.

(5) Equation: _____

(6) Equation: _____

(7) Equation: _____



USING TWO POINTS: Write an equation of the line that passes through the given points.

(8) $(-3, 1), (0, -8) \leftarrow y\text{-int!}$

$$b = -8$$

$$y = mx + b$$

$$1 = m(-3) - 8$$

$$1 = -3m - 8$$

$$9 = -3m$$

$$m = -3$$

$$\boxed{y = -3x - 8}$$

(9) $(2, -7), (0, -5) \leftarrow y\text{-int!}$

$$y = mx + b$$

$$-7 = 2(m) - 5$$

$$-2 = 2m$$

$$m = -1$$

$$\boxed{y = -1x - 5}$$

WRITING FUNCTIONS: Write an equation for the linear function f with the given values.

(10) $f(0) = 2, f(2) = 4$

$(0, 2)$ $(2, 4)$
 $\underbrace{\hspace{2em}}_{y\text{-int}}$
 $b = 2$

$$\boxed{y = 1x + 2}$$

$$y = mx + b$$

$$4 = 2(m) + 2$$

$$2 = 2m$$

$$m = 1$$

USING TWO POINTS: Write an equation of the line that passes through the given points.

(8) $(-3, 1), (0, -8)$

(9) $(2, -7), (0, -5)$

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