

Name: _____ Date: _____ Hour: _____

Study Guide - Quiz #1, Chapter 2

For the quiz, be sure to review the following concepts:

- Finding the slope of a line when given points and when given a graph
- Writing linear equations in point-slope form $y - y_1 = m(x - x_1)$
- Writing linear equations in slope-intercept form ($y = mx + b$)
- Determine if a linear equation produces a horizontal or vertical line, and give the slope
- When given points, slope, or a combination of the two, be able to graph and write a linear equation in slope-intercept form
- Using linear equations to represent and solve real-world scenarios

Learning Target: I can find the rate of change between given points.

1) (7, -3) and (3, -4)

2) (1, 3) and (-3, -5)

3) (-7, -2) and (-10, -5)

Learning Target: I can write a linear equation when given certain information.

4) Slope: 8, y-intercept: -10

5) Slope, -40, passes through the point (1, 3)

6) Slope: -5, passes through the point (0, 12)

7) passes through the points (0, 2) and (3, 8)

Learning Target: I can determine if a line is vertical or horizontal when given an equation.

8) $y = -8$

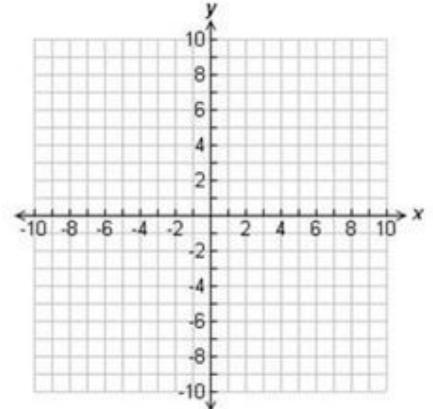
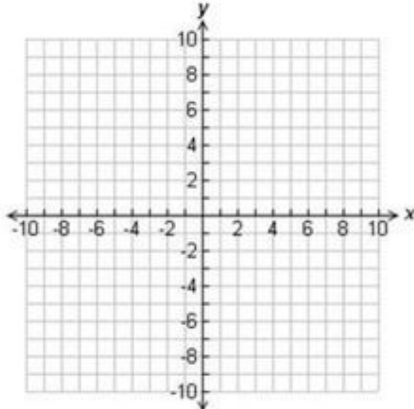
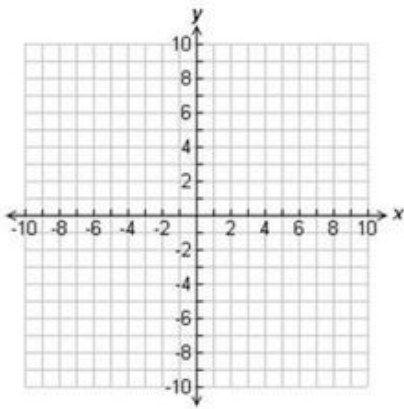
9) $x = 2$

Learning Target: I can write a linear equation in ***slope-intercept form*** when given certain information.

10) Slope: 4, y-intercept: -7

11) Slope: $-\frac{4}{2}$, y-intercept: (0, 3)

12) (2, -3) and (4, 5)



13) (2 points) During the summer, Jimmy Neutron earns a base pay of \$9.53 plus \$3.75 for every lawn he mows.

a) Write an equation that can be used to find out how much Jimmy earned during the summer.

b) How much will he earn if he earn if he mows 438 lawns?