Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Linear Equations: Review.

Find the slope of each line:

 

m = \_\_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_\_\_

Find the slope of a line that passes through the points,

(1, 7) (3, -2) (-10, 4) (-5, -6)

m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_\_\_\_

Draw a line through the given point with the given slope.

(5, 2); m = -2 (-6, -9) ; m = $\frac{1}{3} $

 

Identify the slope and y-intercept from the following equations. Then graph the equations.

y = -4x + 8 y = $\frac{3}{2} x-5$

m = \_\_\_\_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_\_\_\_\_\_

 

Put the following equations into slope-intercept format. Identify the slope and y-intercept. Then graph the equations.

-12x – 3y = -6 -5x + 10 y = 15

Equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

m = \_\_\_\_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_\_\_\_\_

 

Based on the following graphs below, write a linear equation in slope-intercept form for each graph

 

m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write a linear equation for a line that goes through the points listed. Identify the slope and y-intercept. Then graph the equation.

(0, 3) (4, -1) (0, 2) (-8, -14)

m = \_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_\_\_

equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 

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(-8, 2) (4, -4) (10, -2) (-5, 1)

m = \_\_\_\_\_\_\_\_ m = \_\_\_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_\_\_

equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 

Joey swims at a constant rate. After 30 minutes, he has swam 75 laps. Write an equation for this scenario, identify the slope and y-intercept, and graph the line for this equation. Be sure to label your x and y axis with units, and identify the scale of your graph.

m = \_\_\_\_\_\_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_\_\_\_\_\_\_ Equation = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Using the equation from above, how many laps would Joey have swam after 50 minutes. Show your work.