

Practice Quiz: Solving Systems. Homework 4-4

1) Two cities are connected by a highway. City 1 is located at point (3,6) and

City 2 is located at (-6,-12)

- a) Find the slope of the line that passes through these two points.

Given the formula $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-12 - 6}{-6 - 3} = \frac{-18}{-9} = 2$



- b) Write a linear equation in the slope-intercept form ($y=mx+b$) and graph it

$$6 = 2(3) + b$$

$$6 - 6 = 0$$

$$y = 2x + b$$

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

Exercise #1: Consider the system of inequalities shown below. Determine if each of the following points is a solution or not to the system. Show work that justifies your answers.

(a) (3,8)

NO

(b) (5,9)

✓

$$y \geq -x + 10$$

$$m = -1$$

$$b = 10$$

$$x + y > 10$$

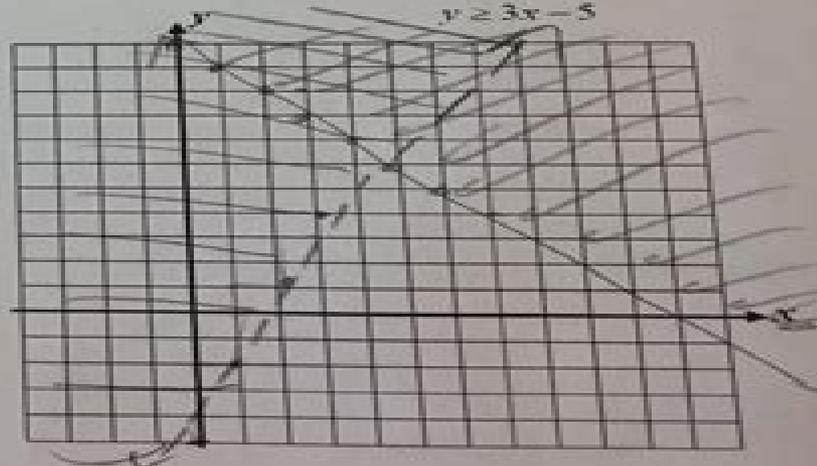
$$y \geq 3x - 5$$

- (c) Graph the solution set to this system of inequalities.

$$y > 3x - 5$$

$$m = 3$$

$$b = -5$$



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M Tight



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