Name: KE

4.1-4.3 Review

Graph both linear equations on the coordinate plane on the right. Make sure you use an input/output table with at least 3 ordered pairs for each. *Label the line with the problem number.*



Graph both of the equations on the coordinate plane on the right. You may you a input/output table if you wish.



Find the slope of the line in *simplest form*.







Period:



- m=-1 because parallel lines always have the same parallel lines? 10) The slope of any line can be written as a ratio that represents its <u>rise</u> over its <u>run</u>.
- 11) Match the slope with the line best represented by the slope.



12) Find the slope of the line that passes through the points. Write your answer in simplest form.

a) $(4, 8)$ and $(6, 12)$ $m = \frac{2}{1}$ or 2	x, y, x_2 y_2 b) (-4, 9) and (-4, -1)	m= <u>no</u> slope
$m = \frac{12 - 8}{6 - 4} = \frac{4}{2} = \frac{2}{1}$	$\frac{-1-9}{-4+4} = \frac{-10}{6}$	UNUETWEE
c) (2, 6) and (-8, 4) $m = \frac{1}{5}$	$x_1 y_1 x_2 y_2$ d) (-5, -7) and (1, -7)	m =
$\frac{4-6}{-8-2} = \frac{-2}{-10} =$	$\frac{-7+7}{1+5} = \frac{0}{6} =$	

13) Find the missing coordinate if a line passes through (-6, -3), (-10, y) and has a slope of -2.

- 14) There is a holiday special at In-N-Out today!! The cost y (in dollars) for x number of Double-Double burgers you get is represented by the equation v = 2x.
 - a) Graph the equation using at least 4 ordered pairs. Be sure to label both axis!



- $m = \frac{2}{10r} 2$ \$2 per every Double-double burger
- 15) To make a special Halloween green hair dye, you mix 3 drops of yellow dye (y) for every 6 drops of blue dye (x).
 - a) Write an equation that represents the situation in simplest form.

$$\frac{3}{6} = \frac{m \cdot 6}{6} \quad m = \frac{3}{6} = \frac{1}{2} \quad y = \frac{1}{2} \times \text{ or } y = \frac{x}{2}$$

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b) What is the slope of the line? Interpret the slope. (what does the slope mean in this situation?) $m = \frac{1}{2}$ Interpret: 1 yellow drop per every 2 blue drops

c) How many drops of yellow dye would you need if there were 36 drops of blue dye? *(use your equation from part a)*