Warm Up

October 30, 2018

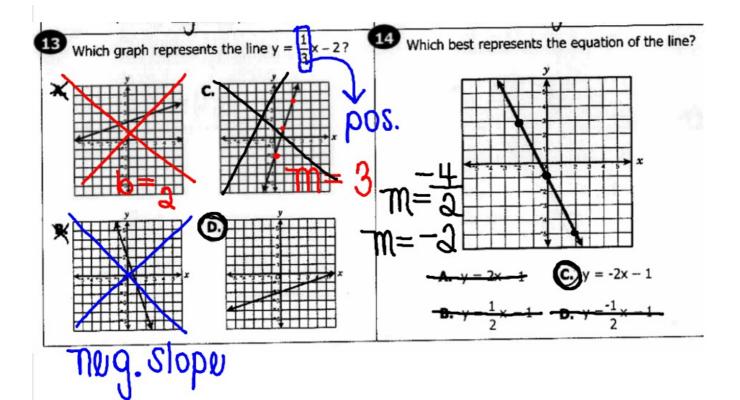
1.) Solve the inequality and name three solutions:

2.) Find the slope: (-2, 4) and (-6, 9).

$$M = \frac{X^{9} - X^{1}}{A^{9} - A^{1}} = \frac{A - A}{A - A} = \frac{A - A}{2} =$$

3.) Twice a number added to four is the same as

one subtracted from the number. What is the number?



Write the equation of the table below.

	+3		+3 +3		+3 +3 +		.g
X	3	6	9 /	12	15	18	21
Y	4,	6	. 8	10	12	14	16
	+6	1	1 +	<u> </u>	$\stackrel{\smile}{a}$	á 🔾	<u> </u>

Unfortunatley, the y-intecept cannot always be

found by looking at the table.

 $m = \frac{2/3}{h}$

Option #1: Work Backwards

Fill in the table for x = 0

_ 0 /	\mathbf{T}	$_{\sim}$ TJ	6-		_		
X	3	1 6	9	12	15	18	21
Y	4	6	8.	10	12	14	16
\alpha \cdot	2 +2 +2						

Option #2: Use the Point-Slope Formula

Main Ideas/Questions Notes/Examples To write the equation of the line passing through point (x_1, y_1) with slope (m), you can use the point-slope formula: Point-Slope Formula: Point-Slope Formula: *Be sure to distribute and solve for y!*

For tables without x = 0

X	3	6	9	12	15	18	21		
Y	4	6	8	10	12	14	16		
$m = \frac{2}{3}$; (9,8) $y - y = m(x - x_1)$ $y - 8 = \frac{2}{3}(x - 9)$ $y - 8 = \frac{2}{3}(x - 9)$ $y - 8 = \frac{2}{3}(x - 9)$ $y - 8 = \frac{2}{3}(x - 9)$									

Writing an equation given a point and the slope.

1.
$$(4, 1)$$
; slope = 2
 $X_1 Y_1 M$
 $Y_1 Y_2 M$
 $Y_2 Y_1 Y_2 M$
 $Y_3 Y_1 Y_2 M$
 $Y_4 Y_4 M$

1.) If *x* is an integer, what is the minimum value of *x* that satisfies the inequality?

$$-7(x-2)+1 < x$$

2.) Arianna went to Marshall's and purchased a shirt for \$21.75 and socks for \$3.99. If tax was 7.5%, what was her total bill?

3.) Identify the slope and y-intercept : 2y + 5x = 16.

What if you Are given two points, (x_1, y_1) and (x_2, y_2) , follow this process:

Use the Slope Formula

Use the Point-Slope Formula

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

8. (-6, -7) and (3, -4)

