

On Graph Paper  
fun w/ Slope

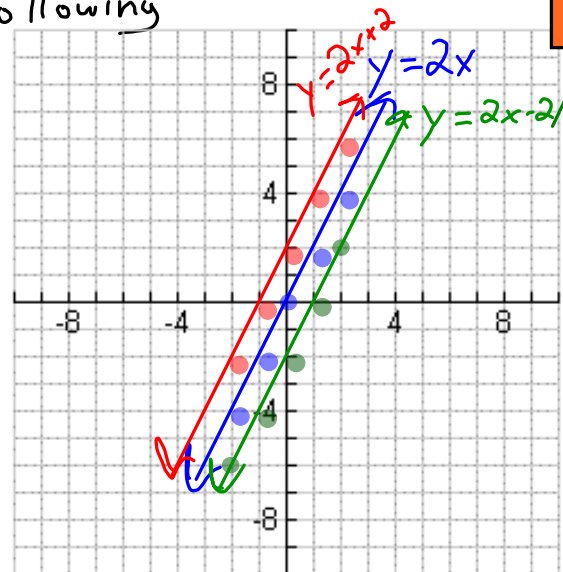
Nov. 15, 2006

Make a x-y axis that is 10 x 10  
Graph the following

$y = 2x$

$y = 2x + 2$

$y = 2x - 2$



For Each Equation give the Slope <sup>and</sup> ~~of~~ the point where it crosses the y-axis

	Slope	y-int
Blue $y=2x$	$m = \frac{2}{1} = \underline{\underline{2}}$	$(0, 0)$
Red $y=2x+2$	$m = \frac{2}{1} = \underline{\underline{2}}$	$(0, 2)$
Green $y=2x-2$	$m = \frac{2}{1} = \underline{\underline{2}}$	$(0, -2)$

$$m = \text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{\text{change in } y}{\text{change in } x} = \frac{y_2 - y_1}{x_2 - x_1}$$

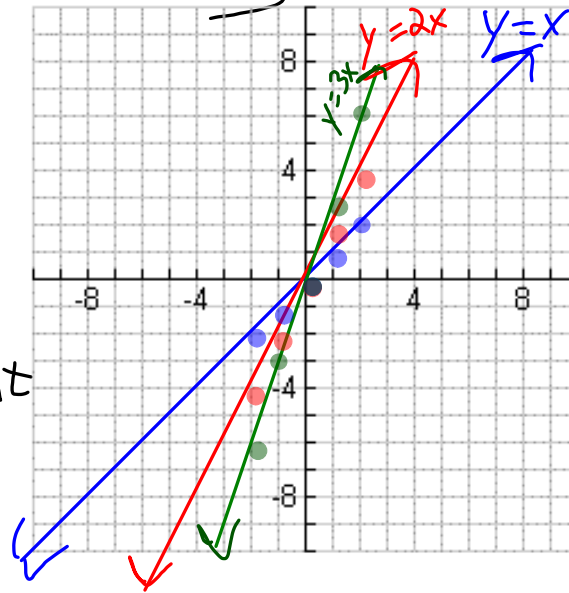
Graph the following

$y = x$

$y = 2x$

$y = 3x$

Slope + y-int



For Each Equation give the Slope <sup>and</sup> the point where it crosses the y-axis

	Slope	y-int
Blue $y=x$	$m = \frac{1}{1} = \underline{\underline{1}}$	$(0, 0)$
Red $y=2x$	$m = \frac{2}{1} = \underline{\underline{2}}$	$(0, 0)$
Green $y=3x$	$m = \frac{3}{1} = \underline{\underline{3}}$	$(0, 0)$

$$m = \text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{\text{change in } y}{\text{change in } x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Conclusion:

the # multiplied by 'x' is the slope <sup>m</sup>

the extra term is the y-int. <sub>b</sub>

$$y = mx + b$$

# O.T.L.

① Pg 242: at the Bottom

The "Think about it."

#1-5 will be turned  
in for a grade.

Complete Sentence Answers