

On Graph Paper  
fun w/ Slope

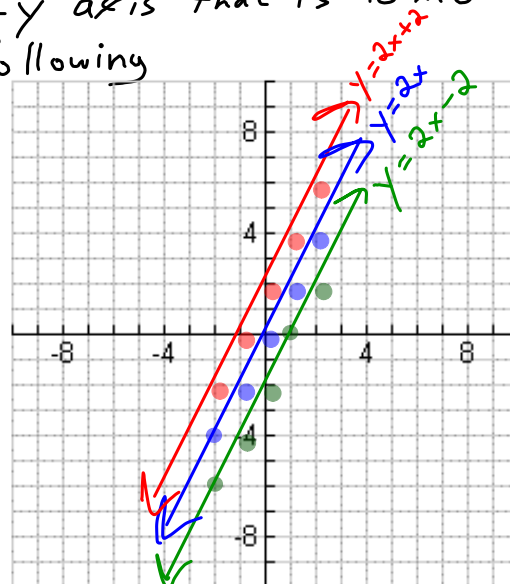
**Feb. 09, 2007**

Make a x-y axis that is 10x10  
Graph the following

$y = 2x$

$y = 2x + 2$

$y = 2x - 2$



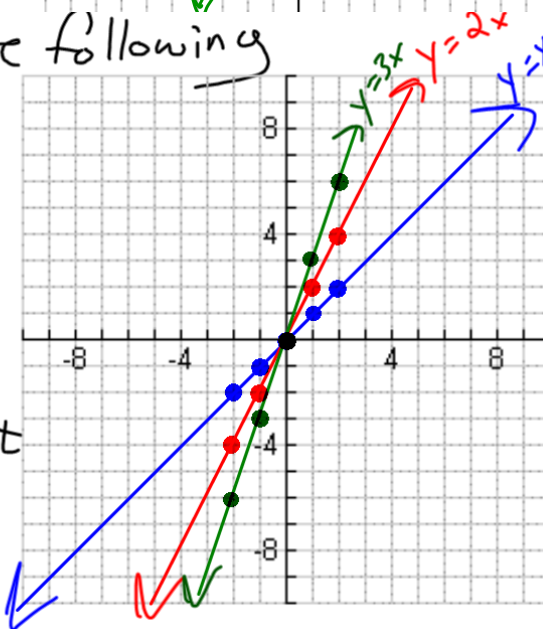
Graph the following

$y = x$

$y = 2x$

$y = 3x$

Slope + y-int



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

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

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

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

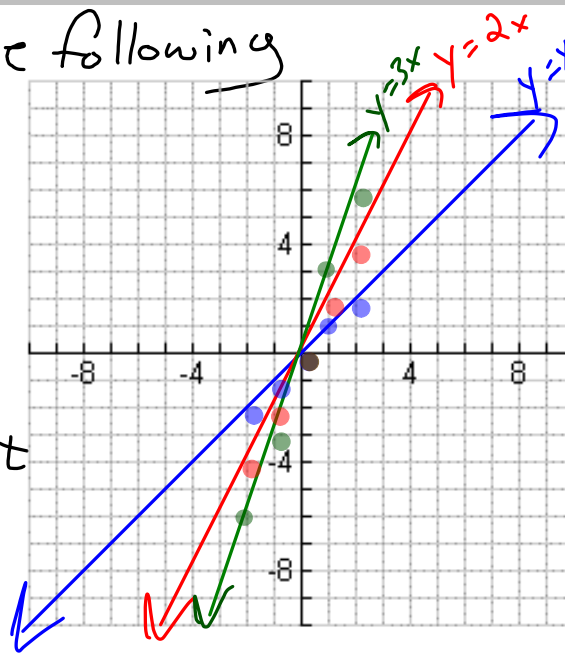
Graph the following

$y = x$

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

	Slope	y-int
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Red <u><math>y=2x</math></u>	$m = \frac{2}{1} = 2$	$(0, 0)$
Green <u><math>y=3x</math></u>	$m = \frac{3}{1} = 3$	$(0, 0)$

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

Conclusion ...  
the # multiplied by  $x$  is the slope  
the extra term is the  $y$ -int.

# 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