On Graph Paper

fun w/ Slope

Nov. 15, 2006

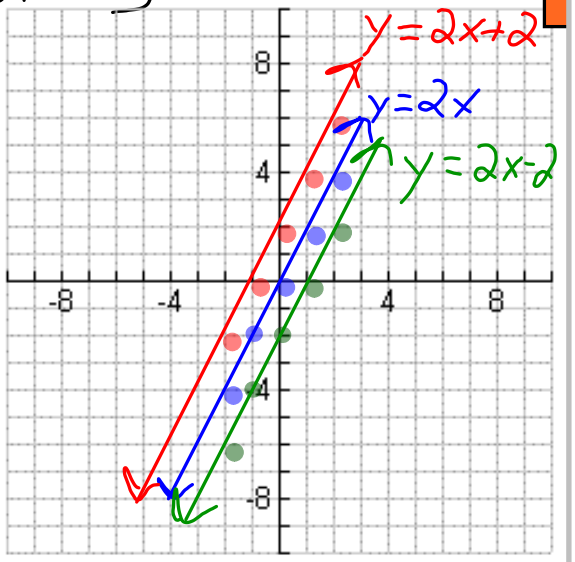
Make a x-y axis that is 10 x10

Graph the following

$y = 2x$

$y = 2x + 2$

$y = 2x - 2$



For Each Equation give the Slope and 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 $y=2x-2$	$m=\frac{2}{1}=2$	$(0,-2)$

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

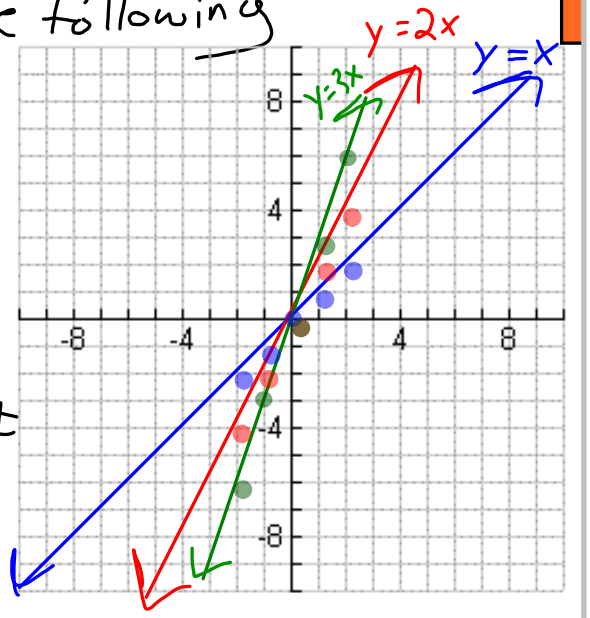
Graph the following

$y = x$

$y = 2x$

$y = 3x$

Slope & y-int



For Each Equation give the Slope and 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 $y=3x$	$m=\frac{3}{1}=3$	$(0,0)$

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

Conclusion...

the # in front of x is the slope

the "extra" term is the y-int.

↳ b

So...

$$y = mx + b$$

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