

Name \_\_\_\_\_  
Mrs. Roubos

Date \_\_\_\_\_  
8R Period \_\_\_\_\_

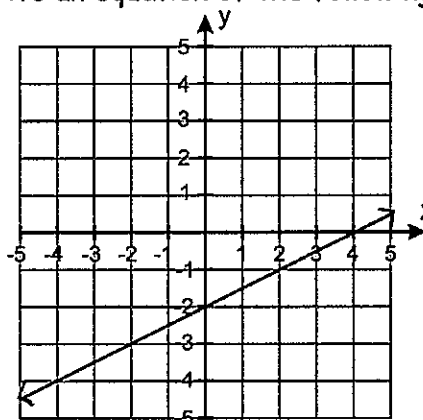
Extra Review for Graphing #1 Quiz

1) Does  $(1, -2)$  satisfy  $y = 3x - 4$

2) Find the slope of the line that passes through  $(-3, -5)$  and  $(-4, 4)$

3) What is the slope of any vertical line?

4) Write an equation of the following line.



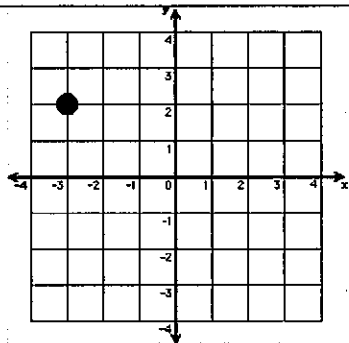
5) What is the equation of a line whose slope is 6 and whose y-intercept is -4?

6) What is the slope of a line whose equation is  $y = 3x - 2$ ?

7) What is the y-intercept of  $y = 5x + 3$ ?

8) What is the slope and y-intercept of  $3y = 6x + 9$ ?

9) What are the coordinates of the following point?

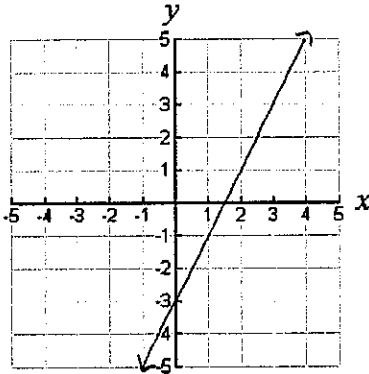


10) What is the slope of a line that points up towards the left?

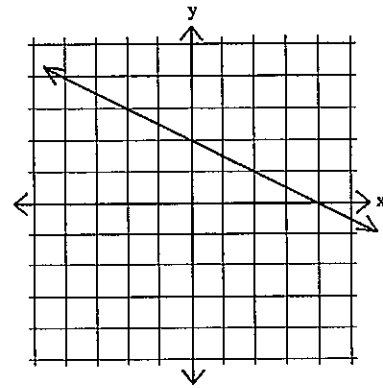
11) What is the slope of a horizontal line?

12) True or False? (5,3) lies in quadrant I?

13) What is the y-intercept of the line graphed below?

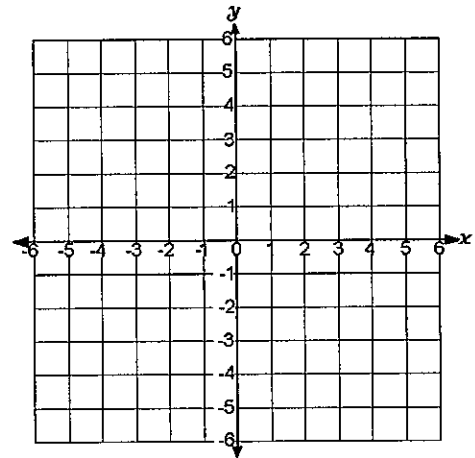


14) What is the slope of the following line?



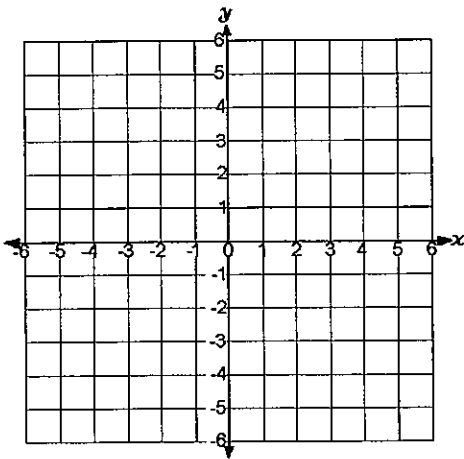
15) Create a table of values to graph  $y = 3x - 2$ . Then graph the line.

x	$y = 3x - 2$	y	(x,y)
-1			
0			
1			
2			

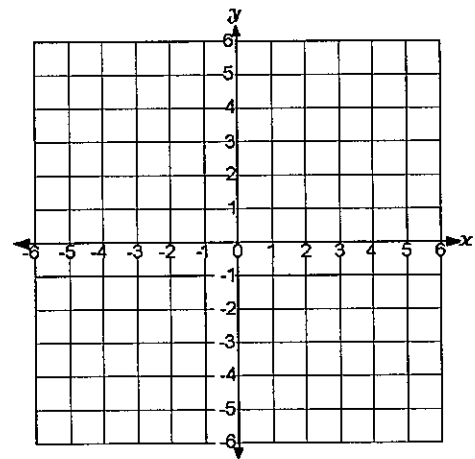


- a) Which quadrant does the line not go through? \_\_\_\_\_  
 b) What are the coordinates of the y-intercept? \_\_\_\_\_

16) Graph the line  $y = -3x - 1$  using the slope-intercept method. Which quadrant does the line NOT go through? \_\_\_\_\_



17) Graph the line  $6y = 12x - 18$  using the slope-intercept method.



Extra Review for Graphing #1 Quiz

x y

1) Does (1, -2) satisfy  $y = 3x - 4$

$$y = 3x - 4$$

$$-2 = 3(1) - 4$$

$$-2 = 3 - 4$$


$$-2 \neq -1 \quad \text{NO!}$$

2) Find the slope of the line that passes through (-3, -5) and (-4, 4)

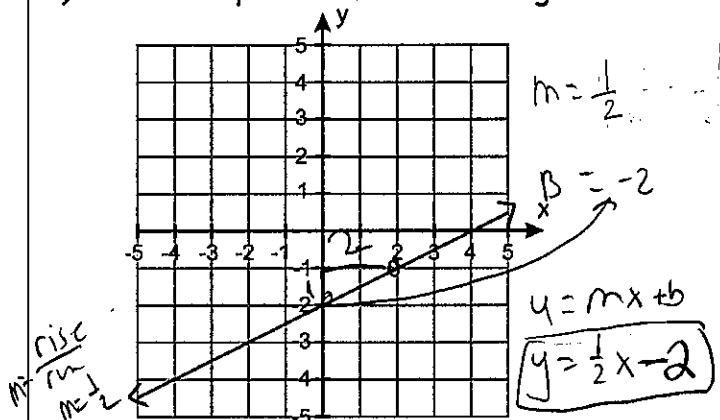
$$x_1 \ y_1 \quad x_2 \ y_2$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} \quad m = \frac{4 - (-5)}{-4 - (-3)} \quad m = \frac{9}{-1} \quad m = \boxed{-9}$$

3) What is the slope of any vertical line?

 Undefined  
(or no slope)

4) Write an equation of the following line.



5) What is the equation of a line whose slope is 6 and whose y-intercept is -4?

$$m = 6 \quad y = mx + b$$

$$B = -4 \quad \boxed{y = 6x - 4}$$

6) What is the slope of a line whose equation is  $y = 3x - 2$ ?

$$y = mx + b$$

$$\boxed{m = 3}$$

7) What is the y-intercept of  $y = 5x + 3$ ?

$$y = mx + b$$

$$\boxed{b = 3}$$

8) What is the slope and y-intercept of  $3y = 6x + 9$ ?

$$\frac{3y}{3} = \frac{6x + 9}{3}$$

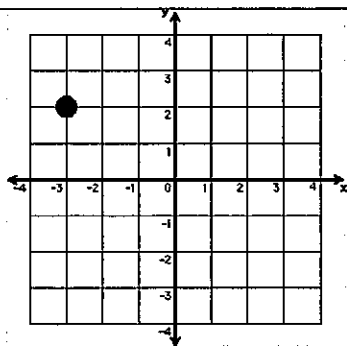
$$y = 2x + 3$$

$$y = mx + b$$


Slope  $\boxed{m = 2}$   
y-int  $\boxed{b = 3}$

9) What are the coordinates of the following point?

$(x, y)$   
 $(-3, 2)$



10) What is the slope of a line that points up towards the left?

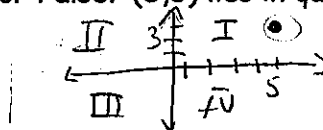
 Negative  
slope  
"downhill"

Vertical: ↑ undefined

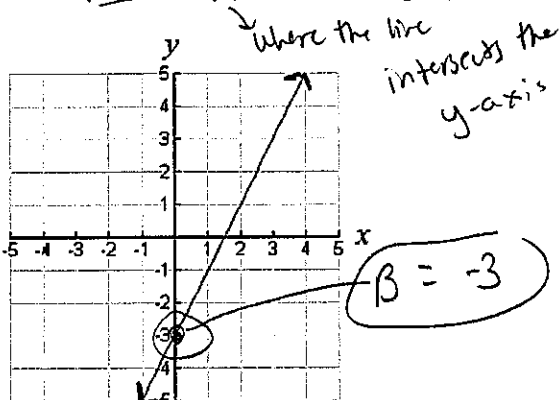
11) What is the slope of a horizontal line?

← → Zero slope

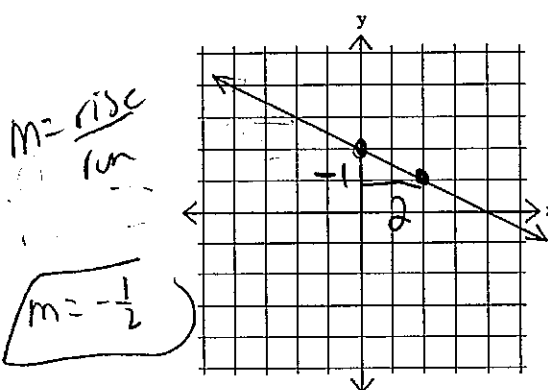
12) True or False? (5,3) lies in quadrant I?

 True!

13) What is the y-intercept of the line graphed below?

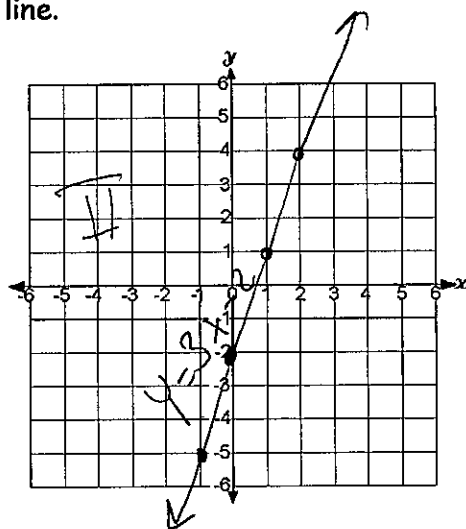


14) What is the slope of the following line?



15) Create a table of values to graph  $y = 3x - 2$ . Then graph the line.

X	$Y = 3x - 2$	Y	(X, Y)
-1	$Y = 3(-1) - 2$	-5	(-1, -5)
0	$Y = 3(0) - 2$	-2	(0, -2)
1	$Y = 3(1) - 2$	1	(1, 1)
2	$Y = 3(2) - 2$	4	(2, 4)

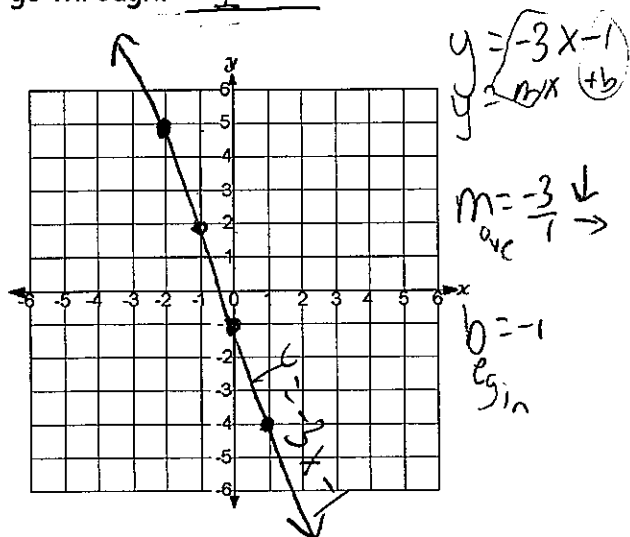


a) Which quadrant does the line not go through?

b) What are the coordinates of the y-intercept?

II  
(0, -2)

16) Graph the line  $y = -3x - 1$  using the slope-intercept method. Which quadrant does the line NOT go through?



17) Graph the line  $6y = 12x - 18$  using the slope-intercept method.

$$\frac{6y}{6} = \frac{12x - 18}{6}$$

$$y = 2x - 3$$

$$m = \frac{2}{1} \rightarrow$$

$$b = -3$$

sin

