

Name \_\_\_\_\_

Date \_\_\_\_\_

Math 8R

Period \_\_\_\_\_

Graphing Quiz #1 REVIEW

Directions: Show all organized work. Write your answers on the available line.  
Calculators are permitted.

1. Find an ordered pair that satisfies the equation  
 $y = -2x - 9$

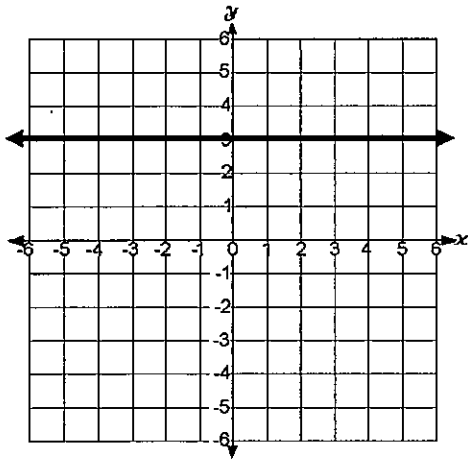
- A. (1, -10)
- B. (-1, -7)
- C. (-1, 7)
- D. (0, 10)

\_\_\_\_\_

2. Find the slope of the line that passes through  
(1, -2) and (-2, -4).

m = \_\_\_\_\_

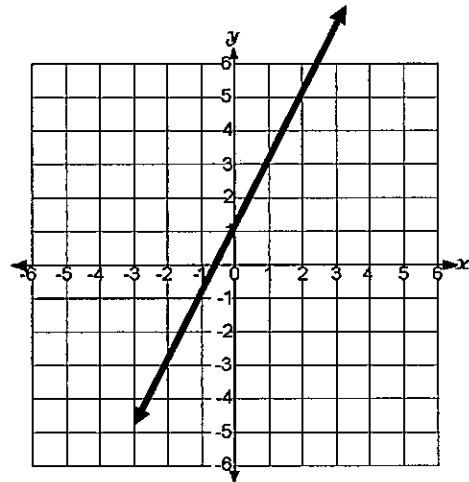
3. Determine the slope of the line graphed below.



- A. 3
- B. 0
- C. undefined
- D.  $\frac{1}{3}$

\_\_\_\_\_

4. Write the equation that represents the line below?



\_\_\_\_\_

5. Which is the equation of a line whose slope is 9 and y-intercept is - 2?

- A.  $y = -2x + 9$       C.  $y = 9x - 2$   
B.  $9y = 2x - 1$       D.  $-2y = 9x + 1$

\_\_\_\_\_

6. What is the y-intercept of a line whose equation is  
 $y = 5x - 2$

\_\_\_\_\_

7. What is the y-intercept of the line whose equation is  $y = -3x - 10$  ?

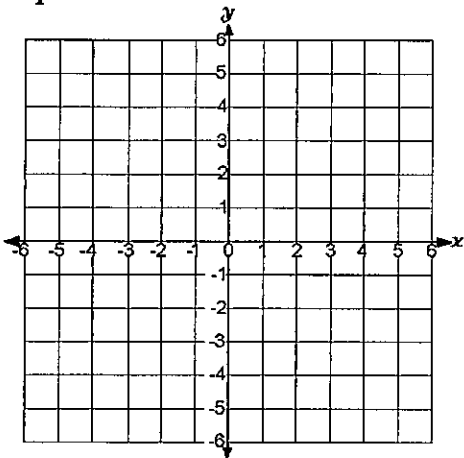
\_\_\_\_\_

8. What is the slope and the y-intercept of the line  $3y = 9x + 12$

m = \_\_\_\_\_

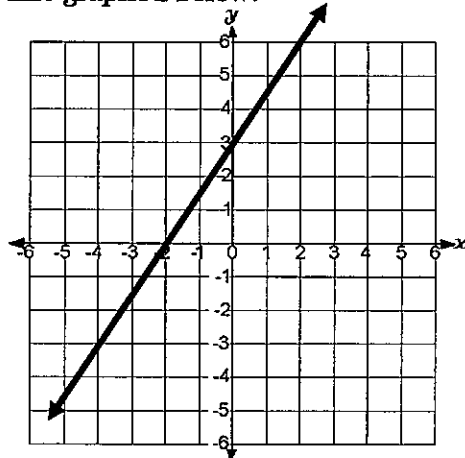
b = \_\_\_\_\_

9. Plot the point A (2, -5). Which quadrant is the point in?



Quadrant: \_\_\_\_\_

10. Which choice best describes the slope of the line graphed below?



- A. Positive Slope      B. Negative Slope  
C. Zero Slope      D. Undefined Slope

\_\_\_\_\_

11. Which choice best describes a vertical line?

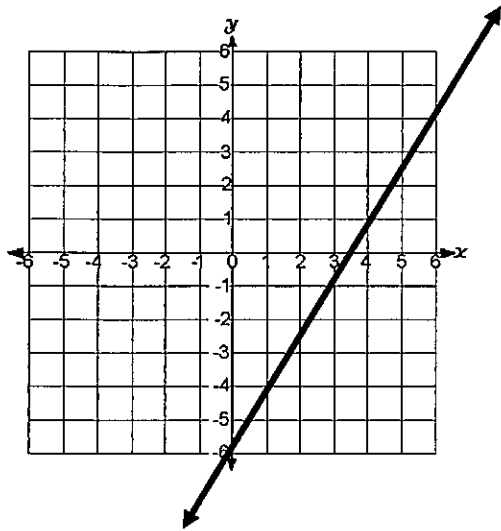
- A. Positive Slope      B. Negative Slope  
C. Zero Slope      D. Undefined Slope

\_\_\_\_\_

12. A point with coordinates  $(-7, -4)$  is in the fourth quadrant.

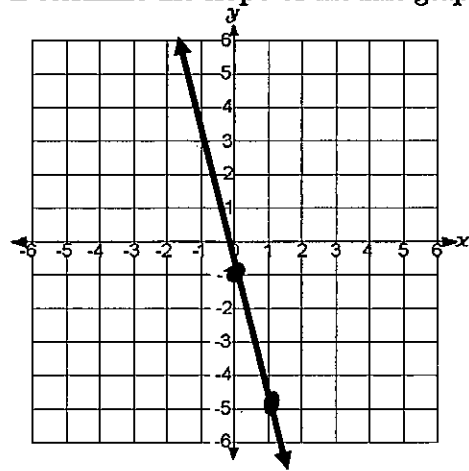
True or False \_\_\_\_\_

13. Determine the y-intercept of the line graphed below.



b = \_\_\_\_\_

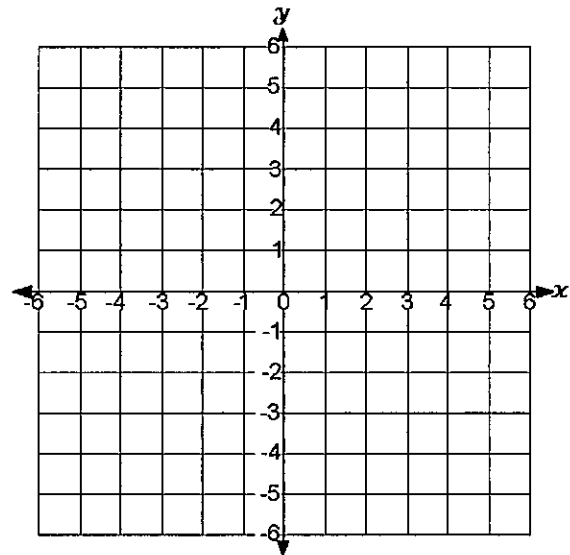
14. Determine the slope of the line graphed below.



m = \_\_\_\_\_

15. Create a table of values to graph the linear relationship  $y = 2x - 2$ . Then graph on the coordinate plane provided.

x	$y = 2x - 2$	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. Rewrite the equation  $y - 6x = 12$  in slope-intercept form.

\_\_\_\_\_

17. Rewrite the equation  $2y + 5x = 12$  in slope-intercept form.

\_\_\_\_\_

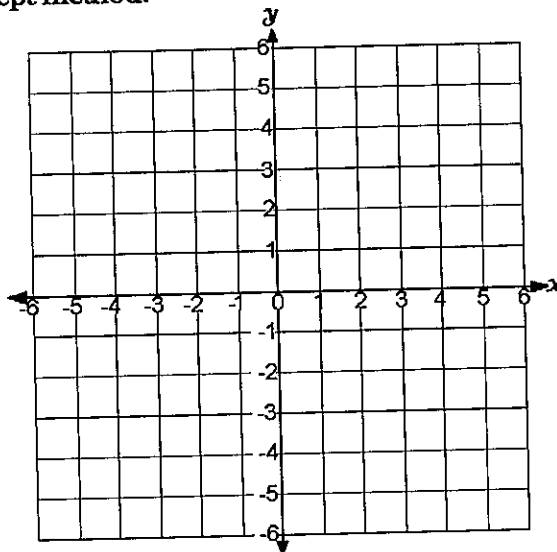
18. Graph the line  $y = 3x - 3$  by using the slope intercept method.

Show your work here.

slope :  $m =$  \_\_\_\_\_

y - intercept :  $b =$  \_\_\_\_\_

A) Which quadrant does the line NOT  
Go through? \_\_\_\_\_



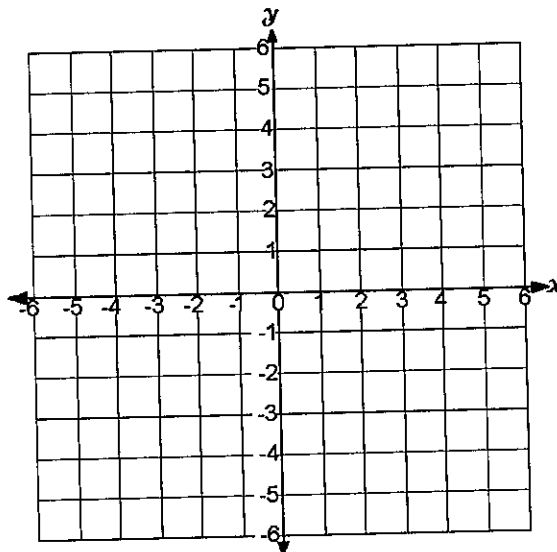
19. Graph the line  $2y + 4x = 8$  by using the slope intercept method.

Show your work here. (Don't forget to put  
your equation in  $y = mx + b$  form first.)

$$2y + 4x = 8$$

slope :  $m =$  \_\_\_\_\_

y - intercept :  $b =$  \_\_\_\_\_



20. Which ordered pair is located on the y-axis?

- A. (2,2)
- B. (0,3)
- C. (-4,-4)
- D. (6,0)

\_\_\_\_\_

21. Which is a solution to the equation  $y = -3x + 12$ ?

- A. (0,12)
- B. (9,1)
- C. (12,-3)
- D. (-3,12)

\_\_\_\_\_

Graphing Quiz #1 REVIEW

Directions: Show all organized work. Write your answers on the available line.  
 Calculators are permitted.

1. Find an ordered pair that satisfies the equation

$y = -2x - 9$        $(-1, 10)$        $(-1, -7)$

<del>A. (0, 10)</del>	$y = -2x - 9$	$y = -2x - 9$
B. <u><math>(-1, -7)</math></u>	$-10 = -2(1) - 9$	$y = -2x - 9$
C. $(-1, 7)$	$-10 = -2 - 9$	$-7 = -2(-1) - 9$
D. $(0, 10)$	$-10 \neq -11$	$-7 = 2 - 9$

\*Keep guessing and checking until you get it correct!

B

2. Find the slope of the line that passes through

$(1, -2)$  and  $(-2, -4)$   
 $x_1, y_1$        $x_2, y_2$

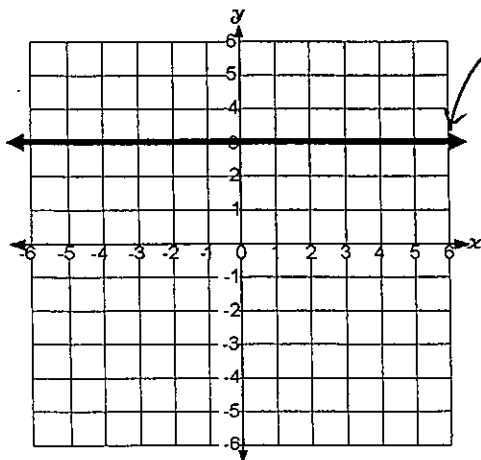
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{-4 - (-2)}{-2 - 1}$$

$m = \frac{-2}{-3}$

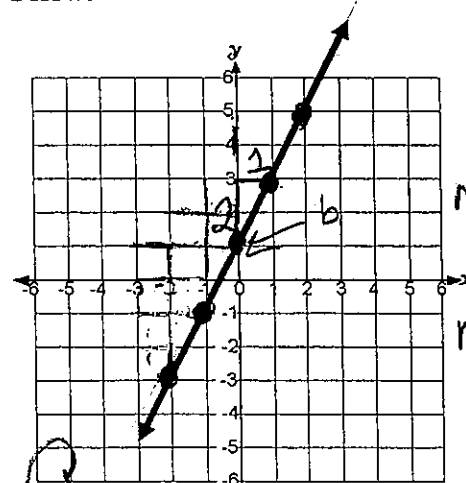
$m = \frac{2}{3}$

3. Determine the slope of the line graphed below.



- A. 3
- B. 0
- C. undefined
- D.  $\frac{1}{3}$

4. Write the equation that represents the line below?



$m = \frac{\text{rise}}{\text{run}}$   
 $m = \frac{2}{1}$   
 $m = 2$

$y = mx + b$   
 $m = 2$   
 $b = 1$   
 $y = 2x + 1$

5. Which is the equation of a line whose slope is 9 and y-intercept is -2?

- A.  $y = -2x + 9$
- B.  $9y = 2x - 1$
- C.  $y = 9x - 2$
- D.  $-2y = 9x + 1$

C

$y = mx + b$   
slope ↑ y-int ↓

6. What is the y-intercept of a line whose equation is

$y = 5x - 2$

y-int ↓  
b

-2

$y = mx + b$

7. What is the y-intercept of the line whose equation is  $y = -3x - 10$ ?

y-int ↓  
b -10

$y = mx + b$

8. What is the slope and the y-intercept of the line  $\frac{3y}{3} = \frac{9x}{3} + \frac{12}{3}$ ?

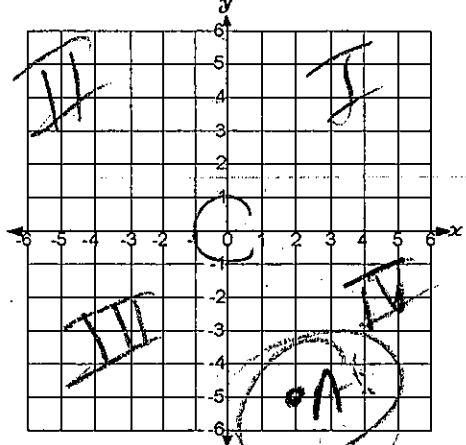
$y = 3x + 4$

$y = mx + b$

m = 3  
b = 4

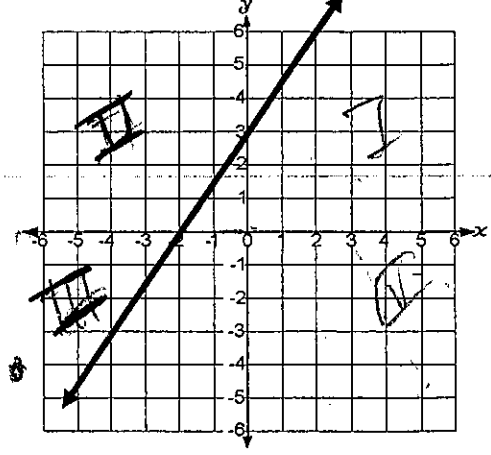
slope y-int

9. Plot the point A (2, -5). Which quadrant is the point in?



Quadrant: IV

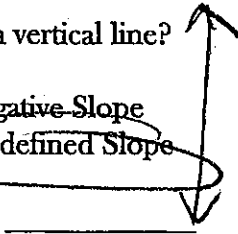
10. Which choice best describes the slope of the line graphed below?



- A. Positive Slope
- B. Negative Slope
- C. Zero Slope
- D. Undefined Slope

11. Which choice best describes a vertical line?

- A. Positive Slope
- B. Negative Slope
- C. Zero Slope
- D. Undefined Slope

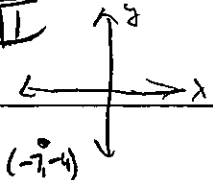


12. A point with coordinates (-7, -4) is in the fourth quadrant.

True or False

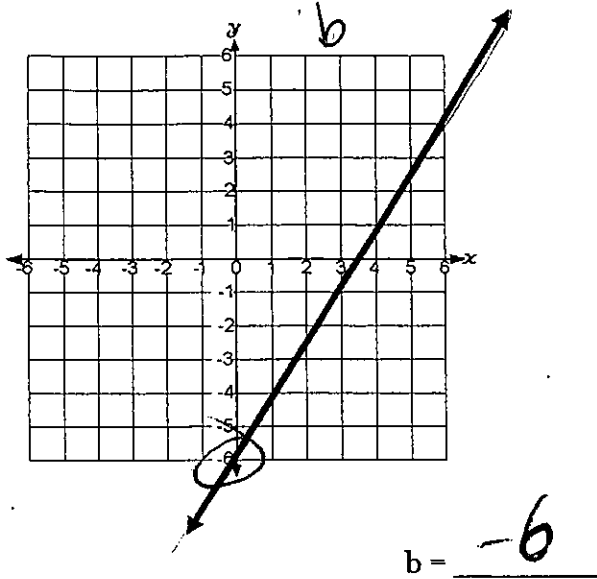
False

It's in Quadrant III

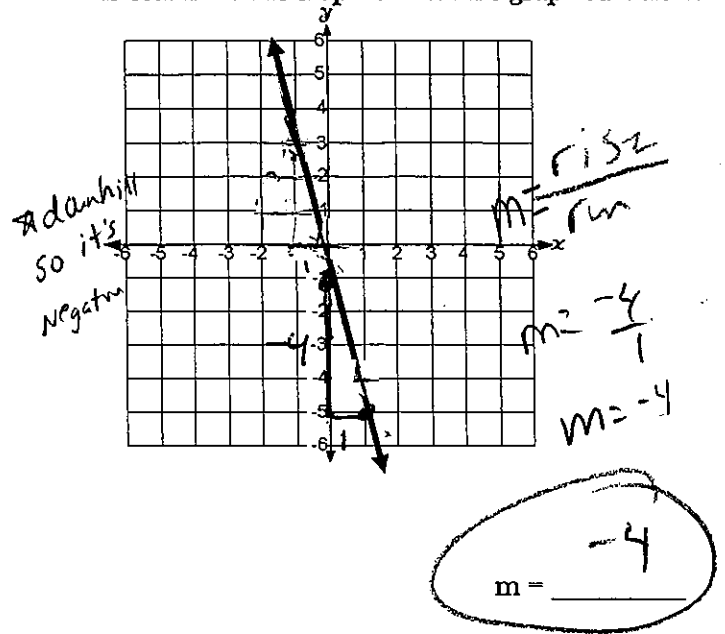


Horizontal = 0

13. Determine the y-intercept of the line graphed below.

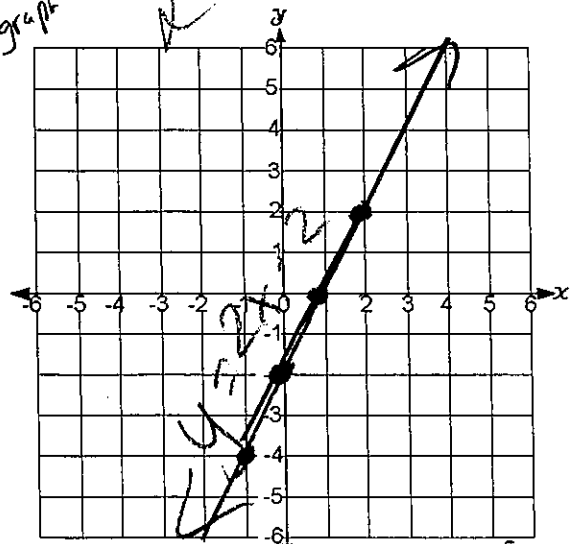


14. Determine the slope of the line graphed below.



15. Create a table of values to graph the linear relationship  $y = 2x - 2$ . Then graph on the coordinate plane provided.

x	$y = 2x - 2$	y	(x, y)
-1	$y = 2(-1) - 2$	-4	(-1, -4)
0	$y = 2(0) - 2$	-2	(0, -2)
1	$y = 2(1) - 2$	0	(1, 0)
2	$y = 2(2) - 2$	2	(2, 2)



A) Which quadrant does the line NOT go through

B) What are the coordinates of the y-intercept (0, -2).

16. Rewrite the equation  $y - 6x = 12$  in slope-intercept form.

$y = mx + b$

$y - 6x + 6x = 12 + 6x$

$y = 6x + 12$

$y = 6x + 12$

17. Rewrite the equation  $2y + 5x = 12$  in slope-intercept form.

$y = mx + b$

$2y + 5x - 5x = 12 - 5x$

$\frac{2y}{2} = \frac{-5x}{2} + \frac{12}{2}$

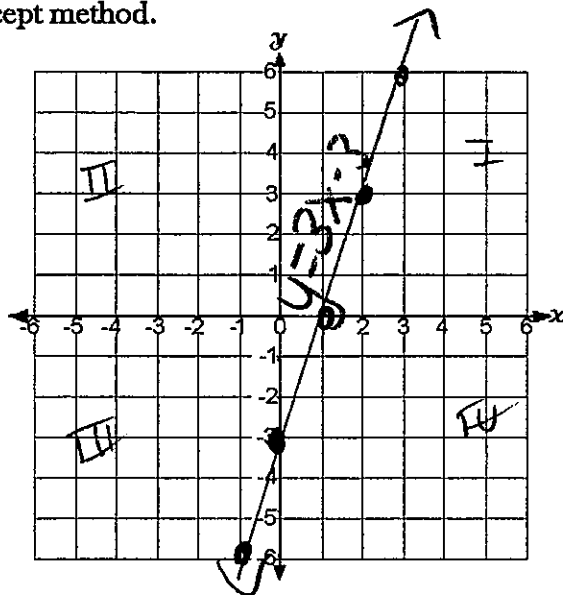
$y = \frac{-5}{2}x + 6$

18. Graph the line  $y = 3x - 3$  by using the slope intercept method.

Show your work here.

slope :  $m = \frac{3}{1}$   $\frac{3 \uparrow}{1 \rightarrow}$

y - intercept :  $b = -3$



A) Which quadrant does the line NOT go through? II

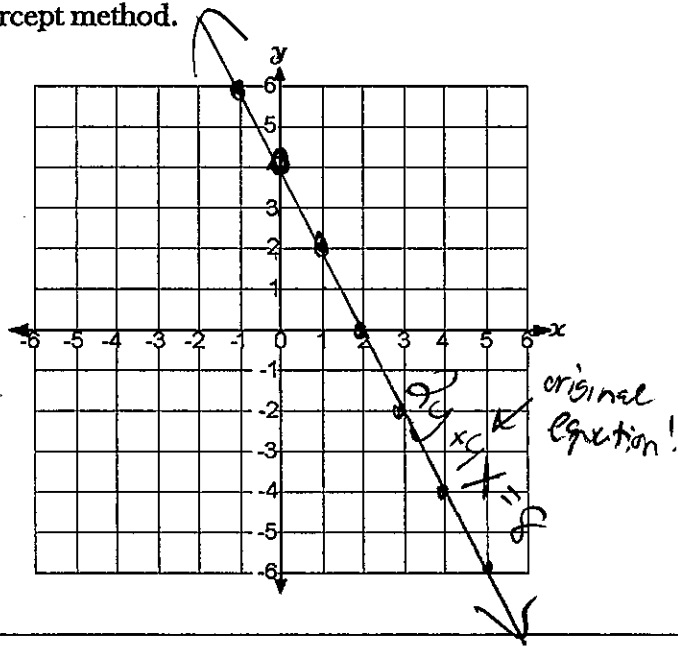
19. Graph the line  $2y + 4x = 8$  by using the slope intercept method.

Show your work here. (Don't forget to put your equation in  $y = mx + b$  form first.)

$$\begin{aligned} 2y + 4x &= 8 \\ -4x & \quad -4x \\ \hline 2y &= -4x + 8 \\ \frac{2y}{2} &= \frac{-4x}{2} + \frac{8}{2} \\ y &= -2x + 4 \end{aligned}$$

slope :  $m = -2$   $\frac{-2 \downarrow}{1 \rightarrow}$

y - intercept :  $b = 4$



20. Which ordered pair is located on the y-axis?

- A. (2,2)
- B. (0,3)
- C. (-4,-4)
- D. (6,0)

they are asking for a y-intercept

B

\* the x-value will always be 0!

21. Which is a solution to the equation  $y = -3x + 12$ ?

- A. (0,12)
- B. (9,1)
- C. (12,-3)
- D. (-3,12)

$$\begin{aligned} 12 &= -3(0) + 12 \\ 12 &= 0 + 12 \\ 12 &= 12 \end{aligned}$$

A

\* keep guessing and checking until you get it correct