## hapter 6 Practice Test

## Multiple Choice

Identify the choice that best completes the statement or answers the question.

Match the equation with its graph.

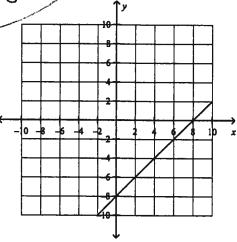
(a. )

8x - 8y = -64

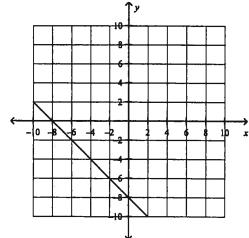
3x=-64 x=-8

y= X+3

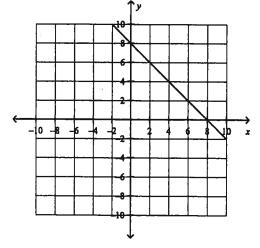
- 34 -- 64



Dept b.

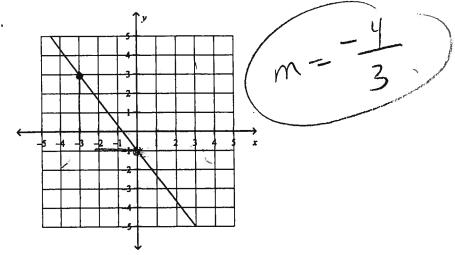


d.



Find the slope of the line.

2.

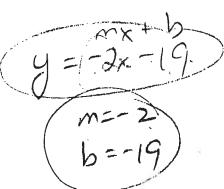


Find the slope and y-intercept of the line.

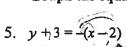
3. 
$$8x + 4y = -76$$

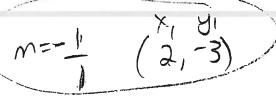
Find the x- and y-intercept of the line.

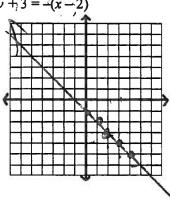
4. 
$$-2x + 6y = -24$$

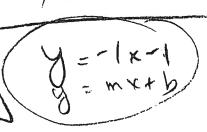


## Graph the equation.









Write an equation in point-slope form for the line through the given point with the given slope.

6. 
$$(2, -3)$$
;  $m = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$   $(2, -3)$ ;  $m = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$  Find the slope of the line that passes through the pair of points.  $(-2, 8)$ ,  $(8, -1)$   $(-2, 8)$  Slope:  $(-2, 8)$   $(-2, 8)$ 

Find the slope of the line that passes through the pair of points. 
$$(-2, 8)$$
,  $(8, -1)$ 

Slope: 
$$\frac{-9}{10}$$
  $m = \frac{1-8}{3-(2)}$ 

7. The rate of change (or slope) is constant in the table. Find the rate of change. Explain what it means for the situation.

	★ Time (hours)	Distance (miles)	
	4	204	
<b>X</b>	6	306	
١.	8	408	
	10	510	

9. Write an equation of a line with the given slope and y-intercept. m = -3, b = 6

10. Find the slope and y-intercept of the line.  $y = \frac{4}{5}x - 2$ 

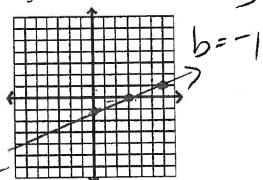
$$y = \frac{4}{5}x - 2$$

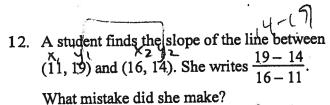
	102		
Slope	2	51	mph

y-intercept:\_

11. Use the slope and y-intercept to graph the equation.

 $y = \frac{1}{3}x - 1$ 

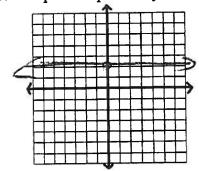




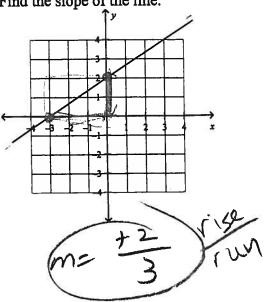
What mistake did she make?

Switched X+y order in www everter

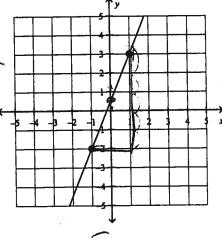
13. Graph the equation. y = 2



14. Find the slope of the line.

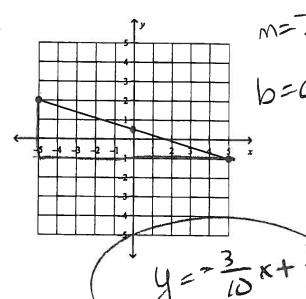


15. Write the slope-intercept form of the equation for the line.



## Write the slope-intercept form of the equation for the line.

16.

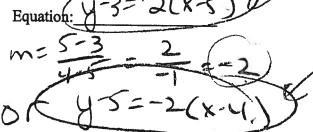


19. Write an equation in point-slope form for the line through the given point with the given

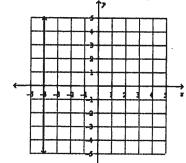
slope. 
$$(-2, -9)$$
;  $m = \frac{2}{5}$ 

20. A line passes through (5,3) and (4,5). a) Write an equation for the line in

point-slope form.



17. State whether the slope is 0 or undefined.



undfrad

b) Change the equation from part a) into slope-intercept form.

18. Find the x- and y-intercept of the line. x + 5y = 30x-int: 30 y-int: 1

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