

Name \_\_\_\_\_

Date \_\_\_\_\_

**Chapter 3**  
**Form A**

1. Determine if the ordered pair  $(0, -2)$  is a solution of  $-3x + y = -2$ .

1. \_\_\_\_\_

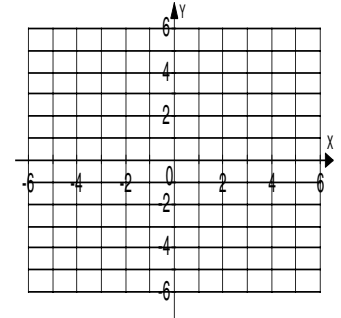
2. Complete the table of values for  $y = \frac{1}{3}x - 2$ .

2.

$x$	$y = \frac{1}{3}x - 2$	$(x, y)$
0		
3		
6		

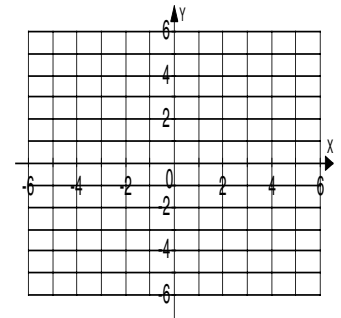
3. Graph the equation  $y = \frac{1}{3}x - 2$  using the ordered pairs from problem 2.

3.

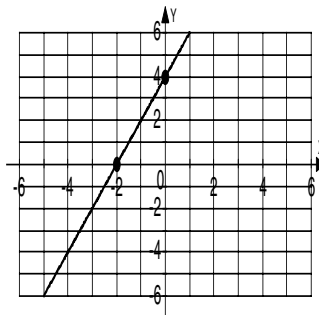


4. Graph  $y = -x - 1$ .

4.



5. For the graph shown, identify the:  
(a)  $x$ -intercept  
(b)  $y$ -intercept.



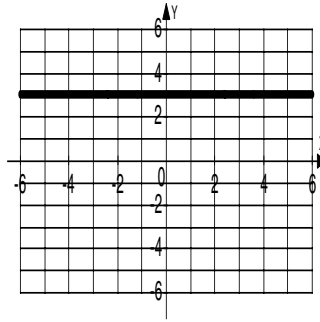
5a. \_\_\_\_\_

b. \_\_\_\_\_

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6. For the graph shown, identify the:  
(a)  $x$ -intercept  
(b)  $y$ -intercept.



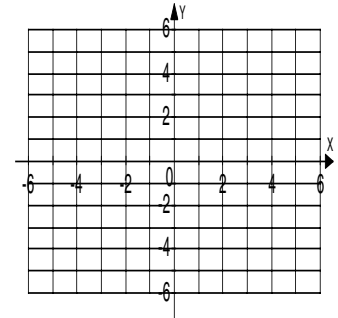
- 6a. \_\_\_\_\_  
b. \_\_\_\_\_

7. For the equation  $6x - 3y = 12$ , identify the:  
(a)  $x$ -intercept  
(b)  $y$ -intercept.

- 7a. \_\_\_\_\_  
b. \_\_\_\_\_

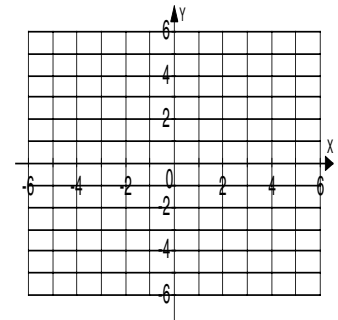
8. Graph the equation  $6x - 3y = 12$  using the  $x$  and  $y$ -intercepts found in problem 7.

8.



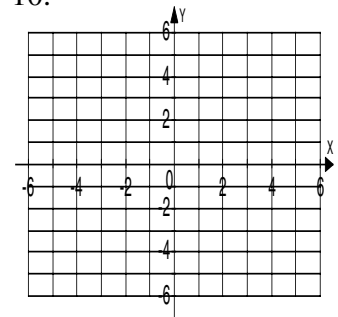
9. Graph the equation  $2x + 4y = 8$ .

9.



10. Graph the equation  $x = -3$ .

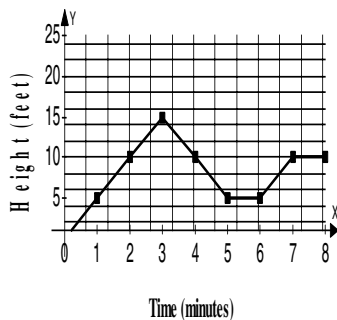
10.



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The graph shows the height  $y$  of a balloon,  $x$  minutes after its release.



Use the graph for problems 11 – 12.

11. (a) At what time did the maximum height occur? 11a. \_\_\_\_\_  
(b) What was the maximum height? b. \_\_\_\_\_
12. (a) What is the y-intercept? 12a. \_\_\_\_\_  
(b) In terms of time and height, interpret the meaning of this intercept. b. \_\_\_\_\_

For problems 13 – 14, calculate the slope of the line passing through the given points.

13.  $(-4, 1)$  and  $(3, -4)$  13. \_\_\_\_\_
14.  $(0, 3)$  and  $(2, 3)$  14. \_\_\_\_\_
15. Determine whether the lines through each pair of points are parallel. Do not graph. 15. \_\_\_\_\_  
 $(0, 1)$  and  $(3, 7)$   
 $(1, 1)$  and  $(2, 3)$

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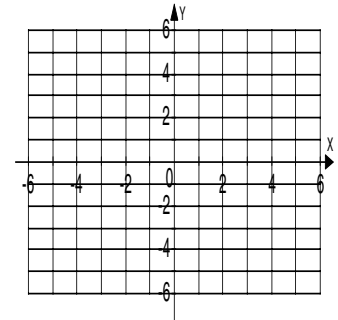
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16. For the equation  $4x - 2y = 6$ , find the  
(a) slope  
(b)  $y$ -intercept.

16a. \_\_\_\_\_  
b. \_\_\_\_\_

17. Use the slope and  $y$ -intercept found in problem 16 to graph  $4x - 2y = 6$ .

17.



18. For the line with slope  $-3$  and passing through  $(-2, 3)$  write the equation of the line in:  
(a) point-slope form  
(b) slope-intercept form.

18a. \_\_\_\_\_  
b. \_\_\_\_\_

19. The equation of a line is given as  $y = \frac{1}{2}x - 4$ . Find the slope of a line that is (a) parallel to the line with the given equation and (b) perpendicular to the line with the given equation.

19a. \_\_\_\_\_  
b. \_\_\_\_\_

20. Find the equation of the line in (a) point-slope form and (b) slope-intercept form that passes through  $(4, 4)$  and  $(7, 10)$ .

20a. \_\_\_\_\_  
b. \_\_\_\_\_