

Name _____

Date _____

Chapter 4
Form A

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

1. _____

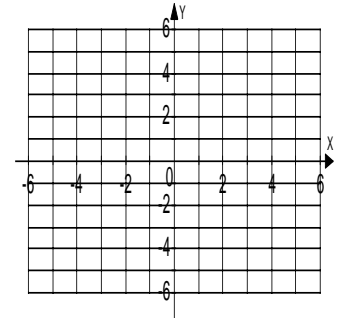
2. Complete the table of values for $y = \frac{1}{3}x - 2$.

2.

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

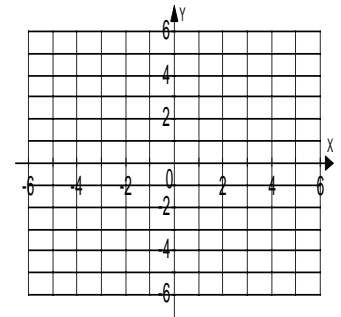
3. Graph the equation $y = \frac{1}{3}x - 2$ using the ordered pairs from problem 2.

3.

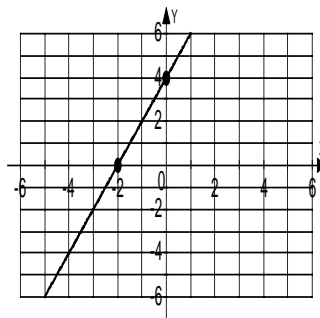


4. Graph $y = -x - 1$.

4.



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



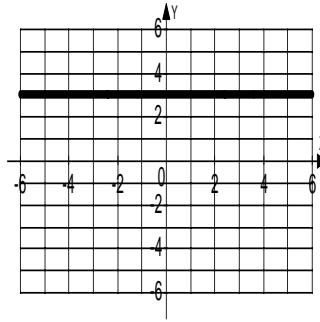
5a. _____

b. _____

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



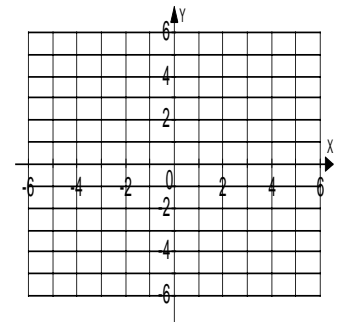
- 6a. _____
b. _____

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

- 7a. _____
b. _____

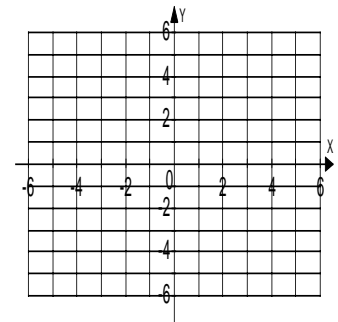
8. Graph the equation $6x - 3y = 12$ using the x and y -intercepts found in problem 7.

8.



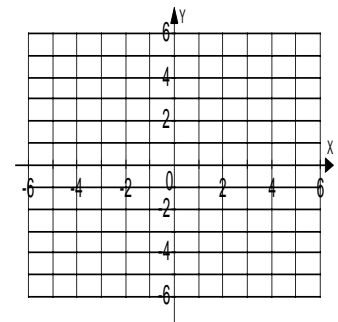
9. Graph the equation $2x + 4y = 8$.

9.



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

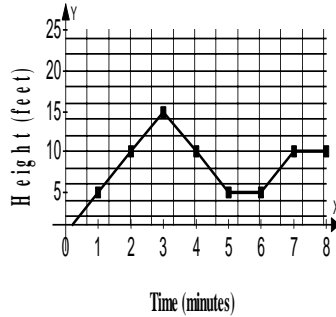
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The graph shows the height y of a balloon, x minutes after its release.



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. 15. _____

$(0, 1)$ and $(3, 7)$

$(1, 1)$ and $(2, 3)$

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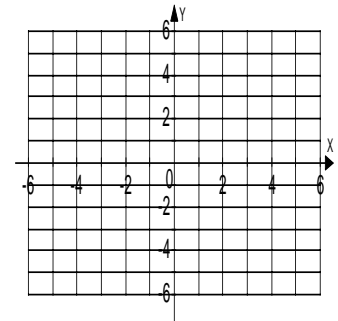
16. For the equation $4x - 2y = 6$, find the
(a) slope
(b) y-intercept.

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 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 $(1, 4)$ and is parallel to $2x - y = 6$.

20a. _____

b. _____