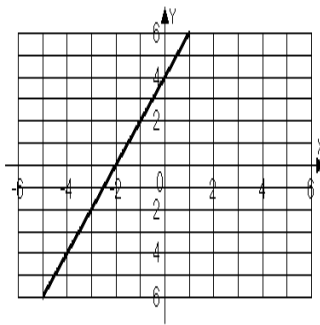


Chapter 3
Form D

1. Which of the following ordered pairs is a solution of $2x - y = 7$?
- a. (3, 1) b. (4, -1) c. (3, -1) d. (5, 2)
2. Which of the following ordered pairs is a solution of $y = -2x - 1$?
- a. (1, -3) b. $(0, -\frac{1}{2})$ c. (2, -3) d. (-1, -3)

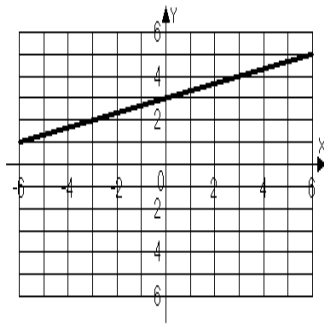
Use the graph shown below for problems 3 – 5.



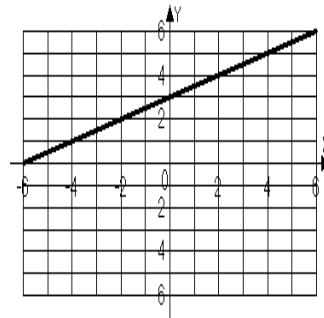
3. Identify the x -intercept and the y -intercept of the graph above.
- a. x -intercept (2, 0)
 y -intercept (0, 4)
- b. x -intercept (-2, 0)
 y -intercept (0, 4)
- c. x -intercept (0, 2)
 y -intercept (4, 0)
- d. x -intercept (0, -2)
 y -intercept (4, 0)
4. Calculate the slope of the line in the graph above.
- a. -2 b. $\frac{1}{2}$ c. 2 d. $-\frac{1}{2}$
5. Write the equation of the line shown in the graph above in slope-intercept form.
- a. $y = -2x + 2$ b. $y = -2x + 4$ c. $y = 2x + 4$ d. $y = -\frac{1}{2}x + 2$

6. Graph the equation $x + 3y = 9$.

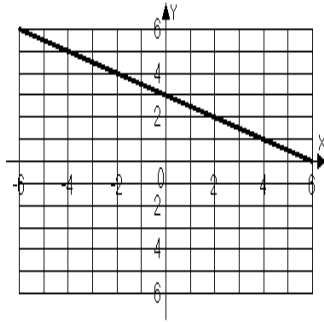
a.



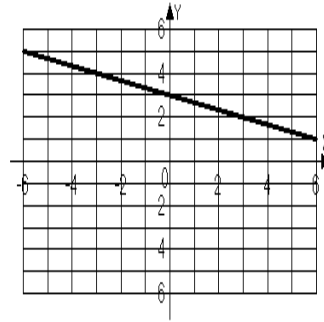
b.



c.

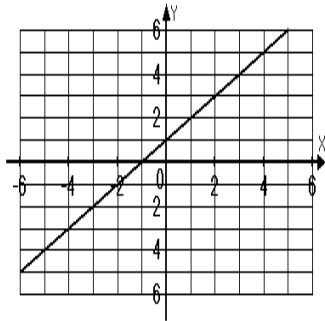


d.

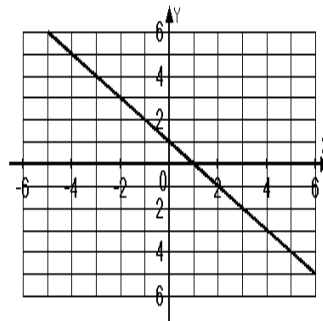


7. Graph the equation $y = x - 1$.

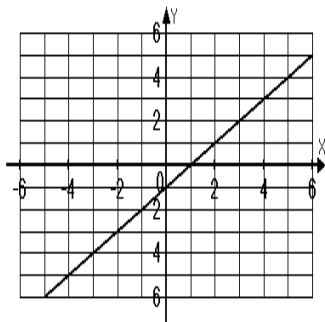
a.



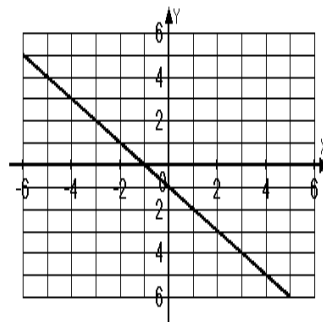
b.



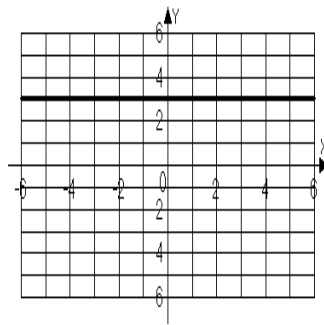
c.



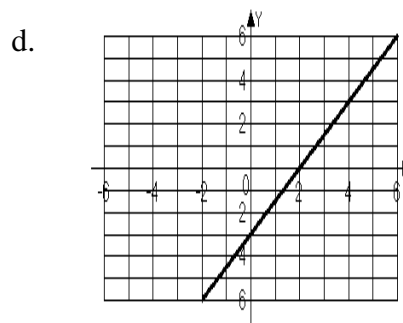
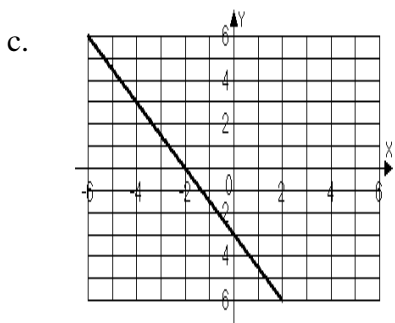
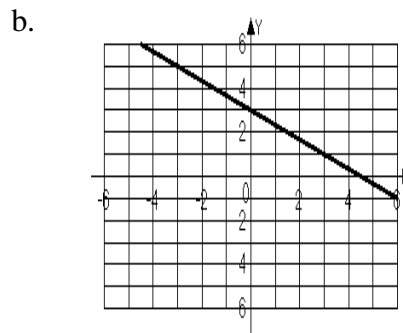
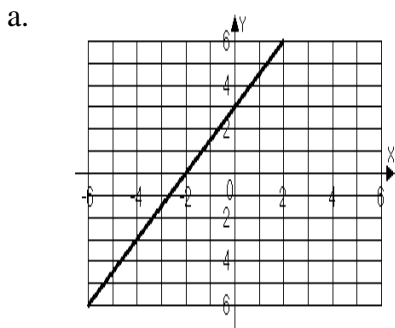
d.



Use the graph shown below for problems 8 – 9.

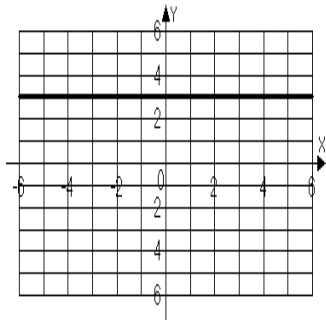


8. Identify the x -intercept and the y -intercept of the above graph.
- | | |
|----------------------------|----------------------------|
| a. x -intercept none | b. x -intercept $(0, 3)$ |
| y -intercept $(0, 3)$ | y -intercept none |
| c. x -intercept $(3, 0)$ | b. x -intercept none |
| y -intercept none | y -intercept $(3, 0)$ |
9. Calculate the slope of the line in the above graph.
- | | | | |
|--------------|------|------|------|
| a. Undefined | b. 3 | c. 0 | d. 1 |
|--------------|------|------|------|
10. For the equation $4x - 8y = 16$, find the x and y -intercepts.
- | | |
|----------------------------|-----------------------------|
| a. x -intercept $(0, 4)$ | b. x -intercept $(-4, 0)$ |
| y -intercept $(2, 0)$ | y -intercept $(0, 2)$ |
| c. x -intercept $(0, 4)$ | b. x -intercept $(4, 0)$ |
| y -intercept $(-2, 0)$ | y -intercept $(0, -2)$ |
11. Graph the equation $3x - 2y = 6$.

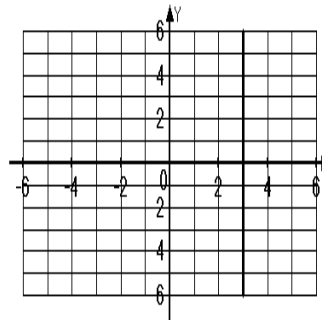


12. Graph the equation $y = -x + 3$.

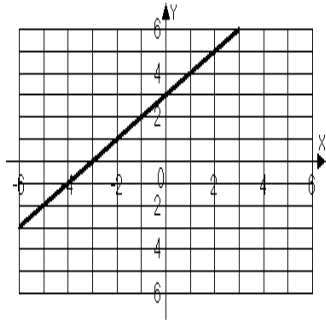
a.



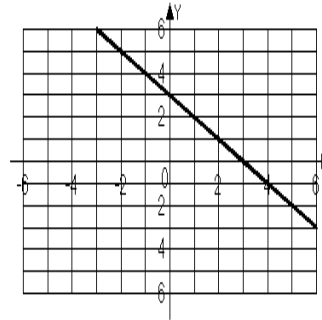
b.



c.



d.



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

13. $(-1, 3)$ and $(-2, -5)$

a. 8

b. $\frac{3}{8}$

c. $\frac{8}{3}$

d. $\frac{1}{8}$

14. $(4, 2)$ and $(4, 8)$

a. -6

b. 6

c. 0

d. Undefined

15. For the equation $6x - 4y = 8$, find the slope and y-intercept.

a. slope $\frac{3}{2}$; y-intercept $(0, 2)$

b. slope $\frac{3}{2}$; y-intercept $(0, -2)$

c. slope $-\frac{3}{2}$; y-intercept $(0, 2)$

d. slope $-\frac{3}{2}$; y-intercept $(0, -2)$

16. Write the point-slope form of the equation of the line passing through the point $(-3, -4)$ and with slope of -3 .

a. $y + 4 = -3(x + 3)$

b. $y - 4 = -3(x - 3)$

c. $y + 4 = 3(x + 3)$

d. $y - 4 = 3(x - 3)$

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Date _____

17. Give the equation of the line that passes through the points $(5, -5)$ and $(5, -7)$.
- a. $y = -\frac{1}{5}x - 4$ b. $x = 5$ c. $y = -5$ d. $y = -5x - \frac{55}{6}$
18. Write the slope-intercept form of the line passing through the points $(5, -5)$ and $(-5, -1)$.
- a. $y = -\frac{5}{2}x - 3$ b. $y = -\frac{5}{2}x - \frac{27}{2}$ c. $y = -\frac{2}{5}x - 3$ d. $y = \frac{2}{5}x + 3$
19. Find the slope of a line that is parallel to the line with the equation $y = \frac{1}{2}x + 4$.
- a. $m = 2$ b. $m = 4$ c. $m = \frac{1}{2}$ d. $m = -\frac{1}{2}$
20. Find the slope of a line that is perpendicular to the line with the equation $2x - 4y = 7$.
- a. $m = 2$ b. $m = -4$ c. $m = \frac{1}{2}$ d. $m = -2$