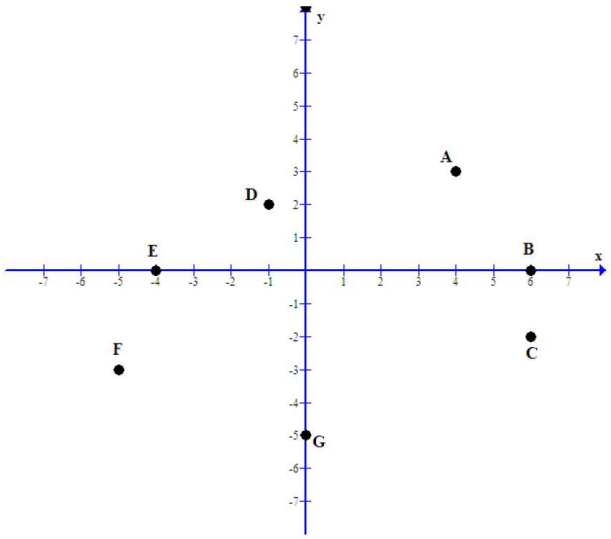
Section 4.1
Exercises

Draw a coordinate plane and then plot and label each of these points.

1. (3, 5)
2. (4, -1)
3. (2, 0)
4. (0, -6)
5. (-4, 0)
6. (0, 5)
7. (-3, -2)
8. (5, -3)

State the coordinates that correspond to each of the points labeled on the graph below.



9. A
10. B
11. C
12. D
13. E
14. F
15. G

For each equation, make a table of values (choosing at least three values for *x*), then use the ordered pairs to graph the line.

16. $y = x + 1$
17. $y = 2x + 3$
18. $y = -3x - 2$
19. $y = \frac{2}{3}x - 1$
20. $y = \frac{3}{2}x + 2$
21. $2x + y = 5$
22. $4x - y = 8$

For each equation, find the *x* intercept and the *y* intercept, then use the ordered pairs to graph the line.

23. $2x + y = 4$
24. $x + 3y = 9$
25. $2x - 5y = 10$
26. $3x - 2y = 12$
27. $2x + 5y = 12$
28. $3x - 4y = 8$

For each equation,

a. write the equation in slope-intercept form
b. state the slope and the y intercept
c. use the slope and the y intercept to graph the line.

29. $y = 4x + 1$
30. $y = -2x + 3$
31. $3x + y = 5$
32. $4x + y = 2$
33. $2x - y = 1$
34. $3x - y = 4$
35. $2x - 3y = 6$
36. $3x + 4y = 12$
37. $x + 5y = 15$
38. $x + 2y = 8$
39. $3x + 2y = 7$
40. $5x - 2y = 9$