

Practice A

For use with pages 210–217

Decide which of the two points lies on the graph of the line.

1. $x + y = 8$

- a. (2, 4) b. (2, 6)

2. $2x + y = 8$

- a. (2, 2) b. (3, 2)

3. $y - x = 2$

- a. (5, 3) b. (3, 5)

4. $x = 4$

- a. (4, 2) b. (2, 4)

5. $y = -3$

- a. (-3, 2) b. (3, -3)

6. $y = 0$

- a. (0, 3) b. (-1, 0)

7. $y = x - 2$

- a. (4, 6) b. (6, 4)

8. $y = x + 3$

- a. (-2, 1) b. (1, -2)

9. $y = -3x + 1$

- a. (0, 1) b. (1, 4)

Find three different ordered pairs that are solutions of the equation.

10. $y = x - 5$

11. $x = -2$

12. $y = 1$

13. $y = -x + 4$

14. $y = -3x - 4$

15. $y = 2(x + 4)$

Rewrite the equation in function form.

16. $-x + y = 6$

17. $x + y = -2$

18. $-x + y = -2$

19. $-2x + y = -4$

20. $3x - y = 1$

21. $-2x + y = 0$

22. $4x + 2y = 1$

23. $-9x + 3y = -6$

24. $-2x - 4y = 3$

Use a table of values to graph the equation.

25. $y = x + 3$

26. $y = x - 2$

27. $y = 2x + 3$

28. $y = 6$

29. $x = -1$

30. $x = 0$

31. $y = -x$

32. $y = \frac{2}{3}x + 6$

33. $y = \frac{1}{2}x + 4$

34. $y = 2 - x$

35. $y = 3(x + 1)$

36. $y = -2(x + 3)$

Summer Income Use the following information.

You earn \$15 an hour mowing lawns and \$10 an hour washing windows. You want to make \$400 in one week. An algebraic model for your earnings is $15x + 10y = 400$, where x is the number of hours mowing lawns and y is the number of hours washing windows.

37. What are your earnings for 3 hours of mowing and 5 hours of window washing?
38. Solve the equation for y .
39. Sketch a graph of the equation.