LESSON 4.2

NAME _____ DATE _____

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. $y = 2(x + 4)$

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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.