

Practice B

For use with pages 210–217

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

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| 1. $2x + 4y = 8$
a. (2, 1) b. (1, 2) | 2. $3x - y = 8$
a. (2, 2) b. (3, 1) | 3. $4y - 3x = -7$
a. (3, 3) b. (-1, 1) |
| 4. $y = 4$
a. (4, 2) b. (2, 4) | 5. $x = -3$
a. (-3, 2) b. (3, -3) | 6. $x = 0$
a. (0, 3) b. (-1, 0) |
| 7. $y = 4x - 2$
a. (-1, -6) b. (0, 2) | 8. $y = \frac{1}{2}x + 3$
a. (-2, 4) b. (0, 3) | 9. $y = -3(x + 1)$
a. (-1, -6) b. (-2, 3) |

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

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| 10. $y = 2x + 1$ | 11. $x = 5$ | 12. $y = -4$ |
| 13. $y = 5 - 2x$ | 14. $y = 3(2x + 4)$ | 15. $y = -\frac{1}{2}x - 4$ |

Rewrite the equation in function form.

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| 16. $-2x + y = 6$ | 17. $x + 4y = -2$ | 18. $-x + y = 7$ |
| 19. $-5x + 2y = -4$ | 20. $3x - 5y = 1$ | 21. $-2x - 4y = 0$ |

Use a table of values to graph the equation.

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| 22. $y = 2x + 1$ | 23. $y = 3x - 2$ | 24. $y = -4x + 2$ |
| 25. $y = -x - 3$ | 26. $y = \frac{1}{2}x + 3$ | 27. $y = -\frac{1}{4}x + 1$ |
| 28. $y = 2$ | 29. $x = -4$ | 30. $y = 0$ |
| 31. $y = -(2 - x)$ | 32. $y = -x + \frac{3}{2}$ | 33. $y = -\frac{3}{4}x + \frac{1}{2}$ |

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.

34. Solve the equation for y . 35. Sketch a graph of the equation.
36. If you spent 14 hours mowing lawns one week, how many hours did you have to wash windows to earn \$400?

Distance Use the following information.

You are 455 miles from home and you are driving toward home at a constant rate of 65 miles per hour. The distance d (in miles) away from home after t hours is given by $d = 455 - 65t$.

37. Sketch the graph of the equation from $t = 0$ to $t = 7$.
38. How far from home are you after 3 hours?