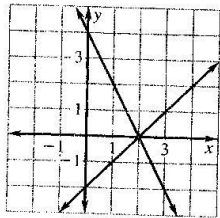


Practice A

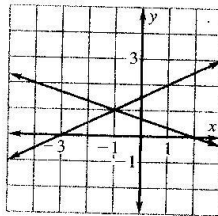
For use with pages 411–417

Use linear combinations to solve the system of linear equations.
Use the graph to check your solution.

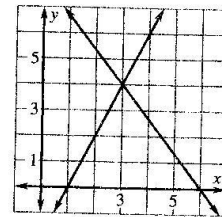
1. $2x + y = 4$
 $x - y = 2$



2. $x + 3y = 2$
 $-x + 2y = 3$



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



Use linear combinations to solve the system of linear equations.

4. $x + y = 5$
 $x - y = 7$

5. $x - 2y = 8$
 $-x + 3y = -5$

6. $x - 4y = 14$
 $-x + 3y = -11$

7. $2x - y = -3$
 $-5x + y = 9$

8. $3x + y = 6$
 $-3x + 4y = 9$

9. $2x - 3y = -16$
 $x + 3y = 10$

10. $x + 3y = -3$
 $x - 4y = 11$

11. $-2x + 3y = 14$
 $x - 4y = -12$

12. $5x + 2y = 5$
 $3x + y = 2$

13. $2x - y = 1$
 $2x + 5y = -5$

14. $4x - 5y = -18$
 $5x + 4y = -2$

15. $2x + 5y = -22$
 $4x - 3y = 8$

16. $4x = -3 + y$
 $y = -6x - 7$

17. $x = 2y + 9$
 $2y = 3x - 19$

18. $5y - 3x = -4$
 $3x + 4y = 13$

19. $4x = 5y + 6$
 $3y + 2x = -8$

20. $3y = 5x + 15$
 $6x = 2y - 18$

21. $\frac{1}{2}x = 4y$
 $5y - x = -3$

Electricians In Exercises 22–24, use the following information.

The yellow pages identify two different local electrical businesses. Business A charges \$50 for a service call, plus an additional \$40 per hour for labor. Business B charges \$30 for a service call, plus an additional \$45 per hour for labor.

22. Let x represent the number of hours of labor and let y represent the total charge. Write a system of equations you could solve to find the lengths of a service call for which both businesses charge the same amount.

23. Solve the system.

24. Which company would you use? Why?

Travel Agency In Exercises 25 and 26, use the following information.

A travel agency offers two Boston outings. Plan A includes hotel accommodations for three nights and two pairs of baseball tickets worth \$645. Plan B includes hotel accommodations for five nights and four pairs of baseball tickets worth \$1135.

25. Let x represent the cost of one night's hotel accommodation and let y represent the cost of one pair of baseball tickets. Write a system of equations you could solve to find the cost of one night's hotel accommodation and one pair of baseball tickets.

26. Solve the system.