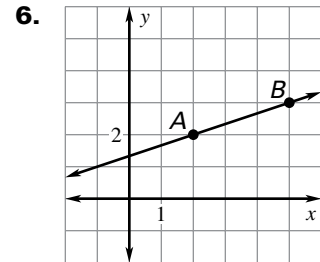
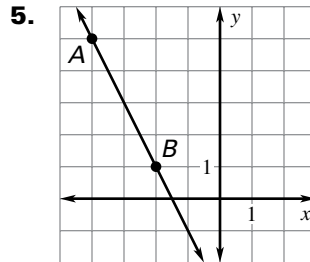
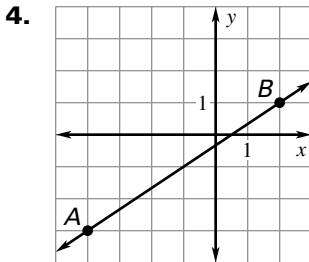
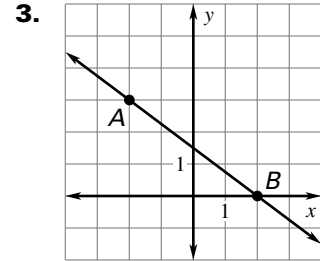
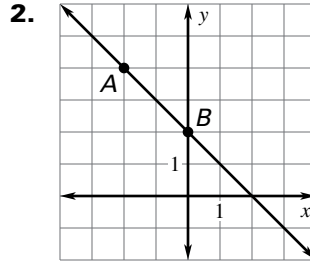
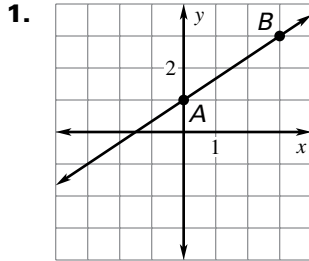


LESSON 3.5 Practice B
For use with pages 186–193

Write an equation of line **AB** in slope-intercept form.



Write an equation of the line that passes through point **P** and is parallel to the line with the given equation.

7. $P(-2, 0); y = -\frac{1}{2}x + 6$

8. $P(3, 9); y = 4x - 8$

9. $P(-5, -4); y = -2x - 10$

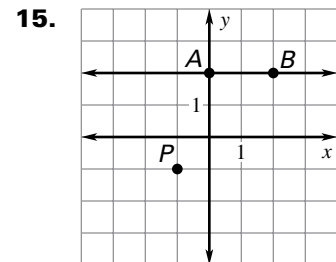
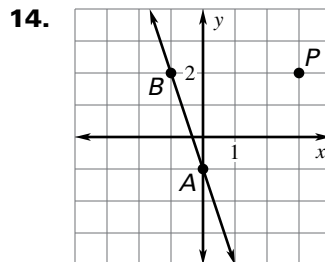
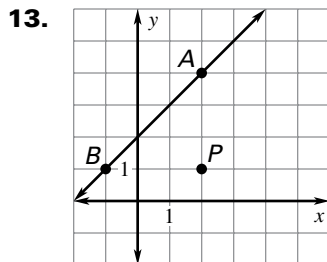
Write an equation of the line that passes through point **P** and is perpendicular to the line with the given equation.

10. $P(5, 20); y = \frac{1}{2}x + 8$

11. $P(4, 5); y = -\frac{1}{3}x - 6$

12. $P(3, 5); y = 4$

Write an equation of the line that passes through point **P** and is parallel to line **AB**.

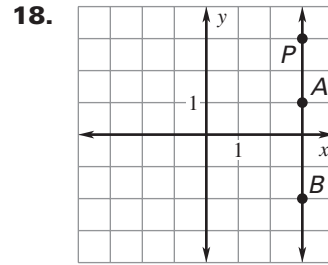
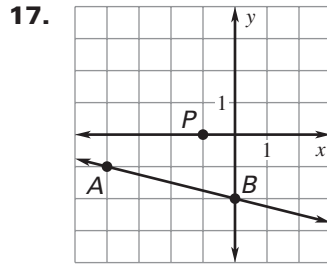
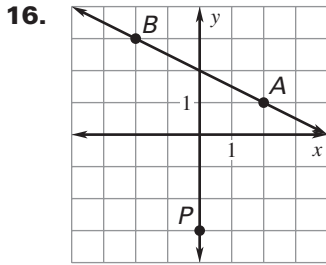


LESSON
3.5

Practice B *continued*

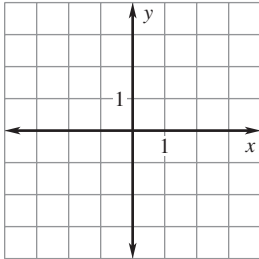
For use with pages 186–193

Write an equation of the line that passes through point P and is perpendicular to line AB .

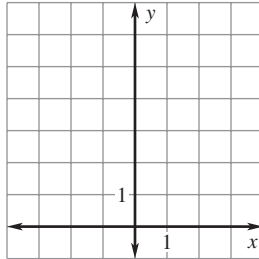


Graph the equation.

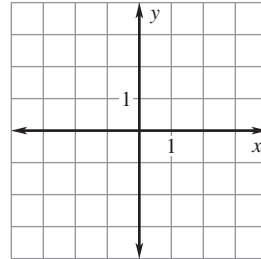
19. $-2x + y = -1$



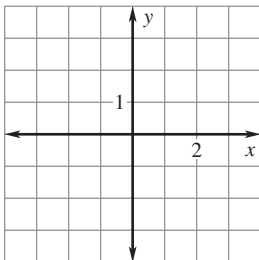
20. $y - 3 = -3x + 2$



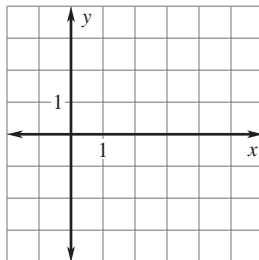
21. $y + 6 = 4$



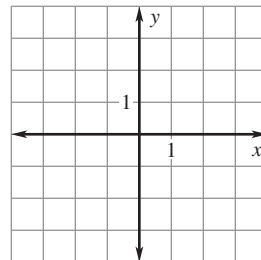
22. $2(x - 1) = -y$



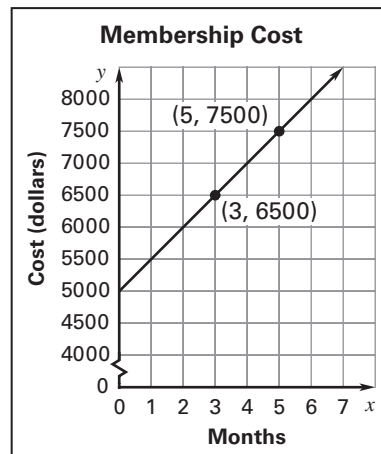
23. $x - 4 = 0$



24. $2y - 4 = 2x$



25. **Country Club** The graph models the total cost of joining a country club. Write an equation of the line. *Explain* the meaning of the slope and the y -intercept of the line.



Lesson 3.4, continued

c. The car is traveling at an average speed of $\frac{1}{3}$ mi/min. d. The car is stopped.

e. The car is traveling at an average speed of $\frac{1}{2}$ mi/min. f. The car is stopped.

g. The car is traveling at 1 mi/min.

Lesson 3.5

Practice Level A

1. $y = 2x + 3$ 2. $y = x + 1$ 3. $y = 4x + 2$

4. $y = 3x - 2$ 5. $y = -6x + 4$ 6. $y = \frac{1}{2}x - 5$

7. B 8. $y = x$ 9. $y = 2x - 1$ 10. $y = -\frac{1}{2}x + 3$

11. $y = \frac{2}{3}x + 2$ 12. $y = -\frac{1}{5}x - 1$

13. $y = -3x + 2$ 14. $y = 3x + 2$

15. $y = 2x - 6$ 16. $y = \frac{1}{2}x + 3$ 17. $y = 2x + 1$

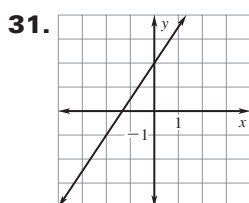
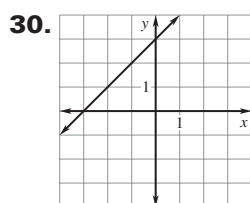
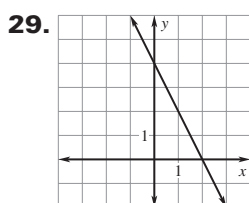
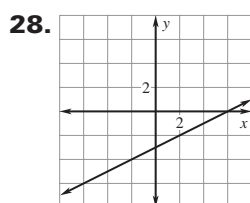
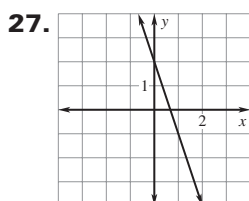
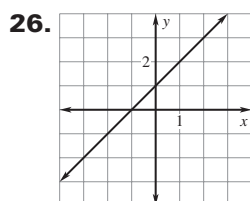
18. $y = 4x - 3$ 19. $y = -x + 1$

20. $y = -2x + 10$ 21. $y = 3x - 11$ 22. $x = -2$

23. x -intercept = -1 ; y -intercept = 2 ; $y = 2x + 2$

24. x -intercept = 3 ; y -intercept = -3 ; $y = x - 3$

25. x -intercept = 3 ; y -intercept = 2 ; $y = -\frac{2}{3}x + 2$



32. $y = 10x + 30$; The slope is the weekly fee, \$10, and the y -intercept is the initial cost to join the league, \$30.

Practice Level B

1. $y = \frac{2}{3}x + 1$ 2. $y = -x + 2$

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

5. $y = -2x - 3$ 6. $y = \frac{1}{3}x + \frac{4}{3}$

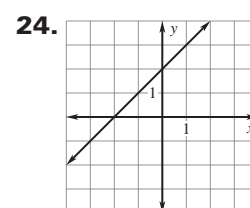
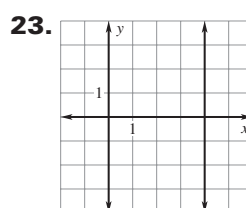
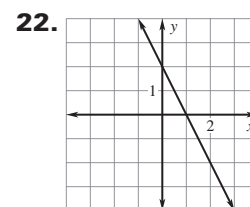
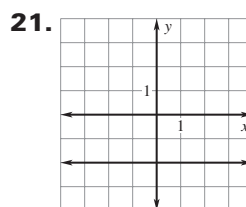
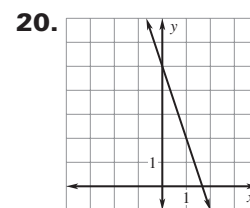
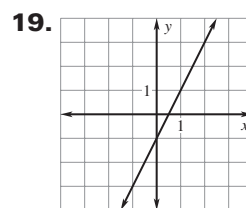
7. $y = -\frac{1}{2}x - 1$ 8. $y = 4x - 3$

9. $y = -2x - 14$ 10. $y = -2x + 30$

11. $y = 3x - 7$ 12. $x = 3$ 13. $y = x - 1$

14. $y = -3x + 11$ 15. $y = -1$

16. $y = 2x - 3$ 17. $y = 4x + 4$ 18. $y = 3$



25. $y = 500x + 5000$; The slope is the monthly fee, \$500, and the y -intercept is the initial cost to join the club, \$5000.

Practice Level C

1. $y = \frac{3}{4}x - 4$ 2. $y = -\frac{3}{2}x + \frac{5}{7}$

3. $y = \frac{10}{3}x - \frac{2}{5}$ 4. $y = -\frac{3}{5}x + 3$ 5. $y = 2x - 1$

6. $y = -\frac{4}{3}x + \frac{19}{3}$ 7. $y = \frac{3}{7}x - \frac{16}{7}$

8. $y = -\frac{7}{4}x + \frac{19}{2}$ 9. $y = 8x - 52$

10. $y = 4x - 8$ 11. $y = -3x + 13$

12. $y = \frac{1}{3}x + 3$ 13. $y = -4x + \frac{25}{2}$

14. $y = -\frac{5}{3}x + \frac{34}{3}$ 15. $y = \frac{1}{2}x$ 16. $y = 4x - 15$