Name _____ Date _____

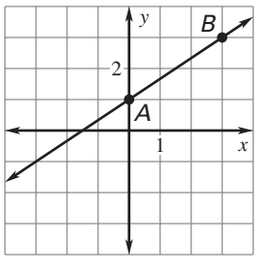
LESSON 3.5

Practice

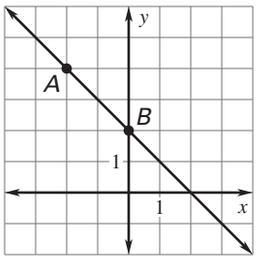
For use with pages 180–187

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

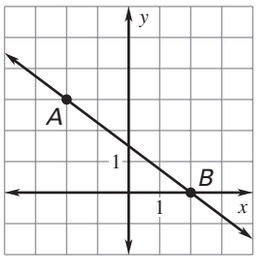
1.



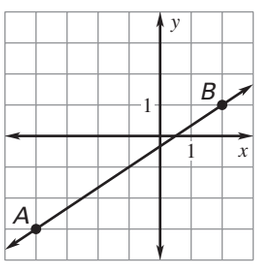
2.



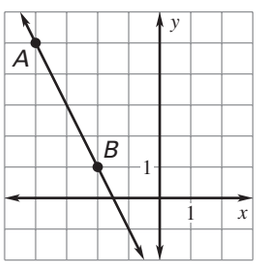
3.



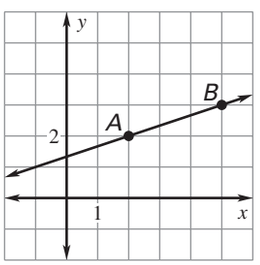
4.



5.



6.



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

Name _____ Date _____

LESSON 3.5

Practice *continued*

For use with pages 180–187

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

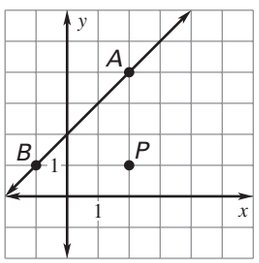
10. $P(5, 20); y = \frac{1}{2}x + 8$

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

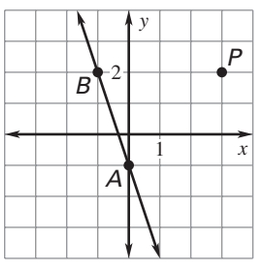
12. $P(3, 5); y = 4$

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

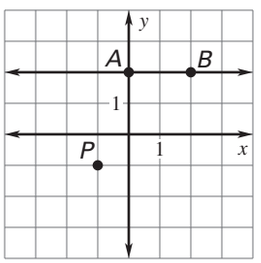
13.



14.

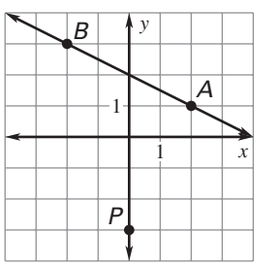


15.

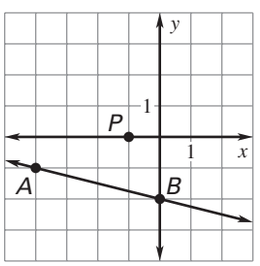


Write an equation of the line that passes through point *P* and is perpendicular to line *AB*.

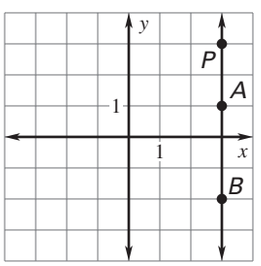
16.



17.



18.



Name _____ Date _____

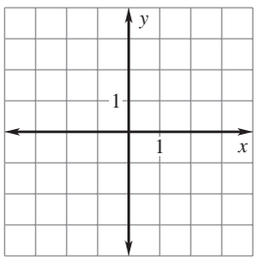
LESSON 3.5

Practice *continued*

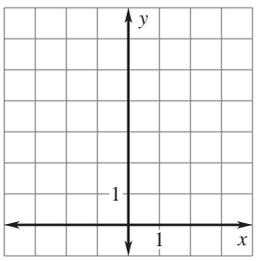
For use with pages 180–187

Graph the equation.

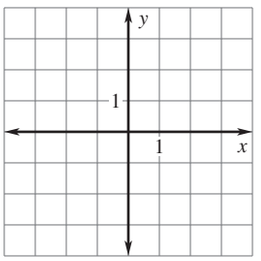
19. $-2x + y = -1$



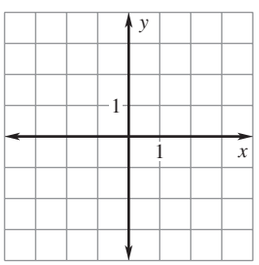
20. $y - 3 = -3x + 2$



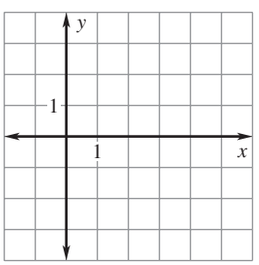
21. $y + 6 = 3$



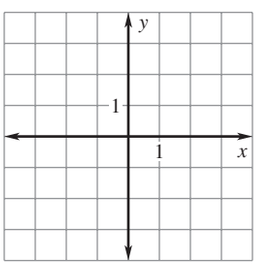
22. $2(x - 1) = -y$



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.