Name _____ Date _____

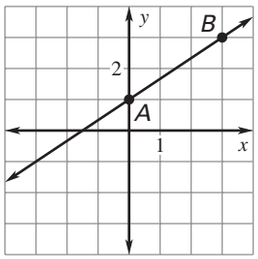
LESSON 3.5

# Practice B

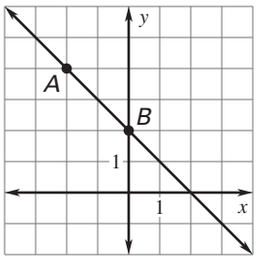
*For use with pages 180–187*

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

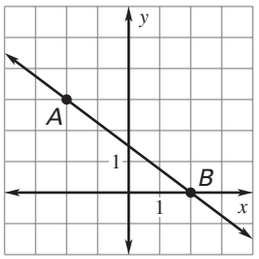
**1.**



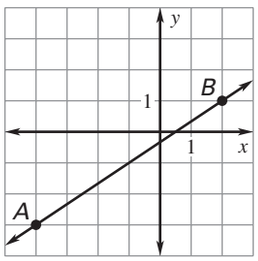

**2.**



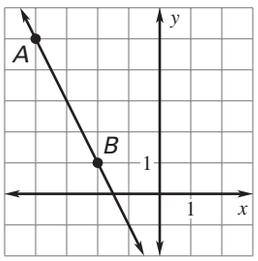

**3.**



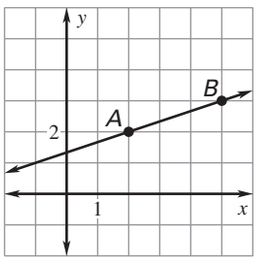

**4.**




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

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

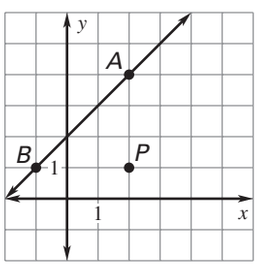
**10.** $P(5, 20); y = \frac{1}{2}x + 8$

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

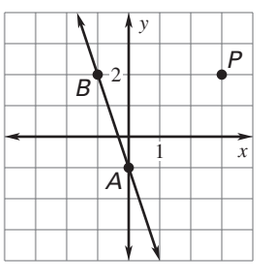
**12.** $P(3, 5); y = 4$

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

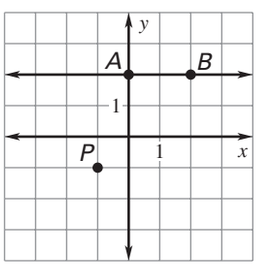
**13.**




**14.**




**15.**



Name _____ Date _____

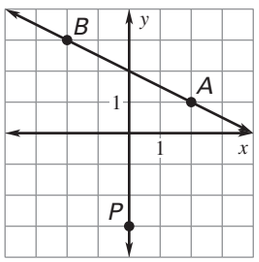
LESSON 3.5

# Practice B *continued*

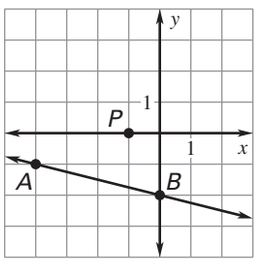
*For use with pages 180–187*

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

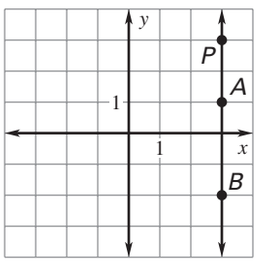
**16.**




**17.**

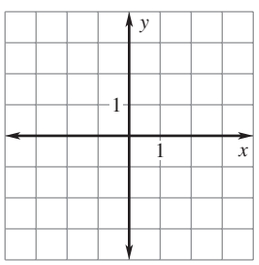



**18.**

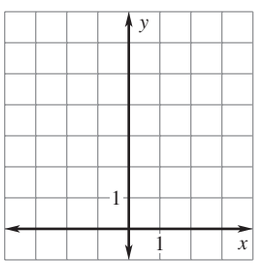



**Graph the equation.**

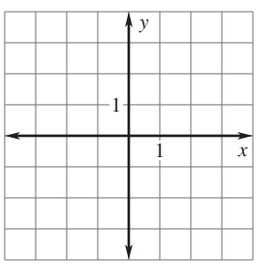
**19.** $-2x + y = -1$



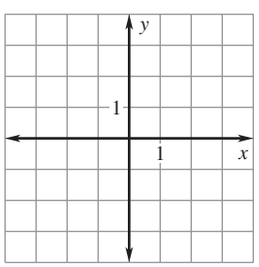

**20.** $y - 3 = -3x + 2$



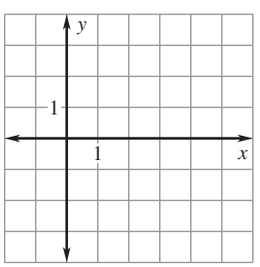

**21.** $y + 6 = 3$



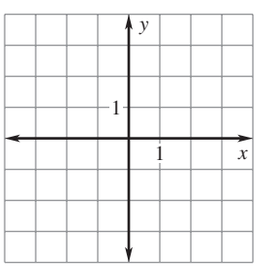

**22.** $2(x - 1) = -y$




**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.