Practice C

Identify the slope and y-intercept of the line with the given equation.

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

2.
$$y = 19 - 6x$$

3.
$$6x + 2y = 14$$

4.
$$3x + 2y = 8$$

5.
$$4x - 5y = 15$$

6.
$$6y - 8x = 18$$

7.
$$8x - 10y = 14$$

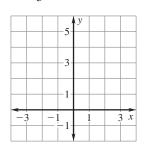
8.
$$4x - 9y = 18$$

9.
$$5y - 3x = 12$$

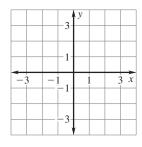
Graph the equation.

10.
$$y = \frac{5}{3}x$$

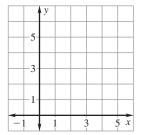
LESSON 4.5



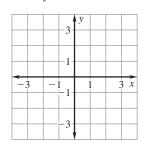
11.
$$y = \frac{3}{2}x - 2$$



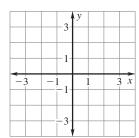
11.
$$y = \frac{3}{2}x - 2$$
 12. $y = -\frac{3}{4}x + 6$



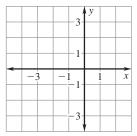
13.
$$7x - y = 3$$



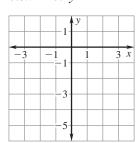
14.
$$6x + 2y = 5$$



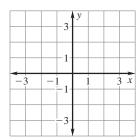
15.
$$4x - 3y = -6$$



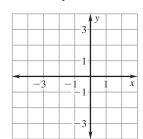
16.
$$0.5x - 0.2y = 1$$



17.
$$8y - 2x = 4$$



18.
$$-6x - 4y = 8$$

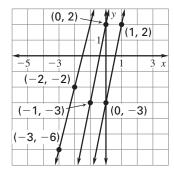


LESSON 4.5

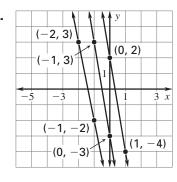
Practice C continued

Determine which lines are parallel.

19.



20.



Tell whether the graphs of the two equations are parallel lines.

21.
$$x - 3y = 6, y = -\frac{1}{3}x$$

22.
$$4x - 8y = 8, y = 0.5x - 1$$

Find the value of k so that the lines through the given points are parallel.

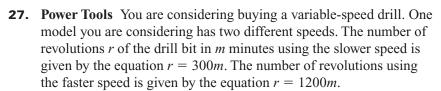
23. Line 1: (-5, -2) and (0, 0)

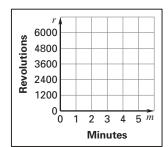
Line 2: (1, 6) and (k, 7)

24. Line 1: (-2, 8) and (-4, -6)Line 2: (-5, k) and (0, -3)

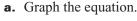
25. Line 1: (-2, -7) and (3, 8) Line 2: (-3, -6) and (2, k)

26. Line 1: (-2, k) and (4, -5) Line 2: (-2, 3) and (8, -2)

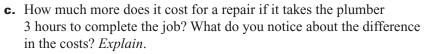


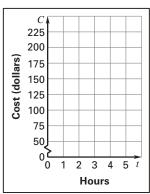


- **a.** Graph both equations in the same coordinate plane. What do the *r*-intercepts mean in this situation?
- **b.** How many more revolutions in 3 minutes does the faster speed on the drill make than the slower speed?
- **28. Plumber** A plumber charges \$50 to come to your house to diagnose a problem and then charges \$30 an hour for labor if you decide to have the plumber repair the problem. The total cost C (in dollars) is given by the equation C = 50 + 30t where t is the time (in hours) the plumber takes to repair the problem.



b. Suppose the plumber raises the charge for labor to \$32 per hour so that the total cost for a repair that takes t hours is given by the equation C = 50 + 32t. Graph the equation in the same coordinate plane as the equation in part (a).





LESSON 4.5