ESSON 3.5

# Name \_

LESSON 3.5

**Practice C** 

For use with the lesson "Graph Using Slope-Intercept Form"

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**9.** 5y - 3x = 12**8.** 4x - 9y = 18**7.** 8x - 10y = 14

# Graph the equation.





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

			_3	y			
			-1-				
-			1				
							_
-3	3	-1	i -1-	1	i —	3	$3\tilde{x}$
-3	3		l - 1-	1		1	3 x
-3	3	-1	-1-	1			3 x

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

			-1-	(y		
-:	3	-1	_1-	1	1	3 x
			3-			
			_5-			
			Ĩ			

# -3 3x-1

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



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

		3 y			
		1			
-3	-1	1	1	3	3 x





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



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



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Date \_\_\_\_

hours) the per hour ren by the e coordinate blumber the difference	See 175 150   150 125   125 100   75 50   0 1 2 3 4 5 7   Hours	
	Algebra 1 Chapter Resource Book	3-69

#### Name

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For use with the lesson "Graph Using Slope-Intercept Form"

# Determine which lines are parallel.

19. (0, 2)(1, 2)-5 |-3|3x(-2, -2)(-1, -3)(0, -3)(-3, -6)

## 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
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## 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)

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

- **25.** Line 1: (-2, -7) and (3, 8)Line 2: (-3, -6) and (2, *k*)
- **27.** Power Tools You are considering buying a variable-speed drill. One model you are considering has two different speeds. The number of revolutions r of the drill bit in m minutes using the slower speed is given by the equation r = 300m. The number of revolutions using the faster speed is given by the equation r = 1200m.
  - **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 plumber takes to repair the problem.
  - **a.** Graph the equation.

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- **b.** Suppose the plumber raises the charge for labor to \$32 so that the total cost for a repair that takes t hours is giv equation C = 50 + 32t. Graph the equation in the same plane as the equation in part (a).
- **c.** How much more does it cost for a repair if it takes the p 3 hours to complete the job? What do you notice about in the costs? Explain.





Minutes



Date \_

LESSON Practice C continued