Date ____

LESSON 4.3 Practice B For use with pages 225–232

Find the *x*-intercept and the *y*-intercept of the graph of the equation.

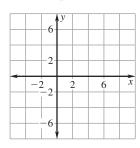
1. $x + y = 1$	2. $x - y = -5$	3.	6x - 3y = -3
4. $5x + 10y = 30$	5. $9y - 5x = 20$	6.	8x - 2y = 16
7. $7x + 8y = 18$	8. $2y - 12x = -6$	9.	2x - 0.5y = 8

11. *x*-intercept: -1

Draw the line that has the given intercepts.

10. *x*-intercept: 5

y-intercept: 4



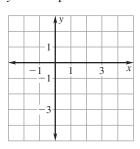
y-i	nte	erce	ept	: 6		
				y		
			-6-			
			-2-			

-2

2

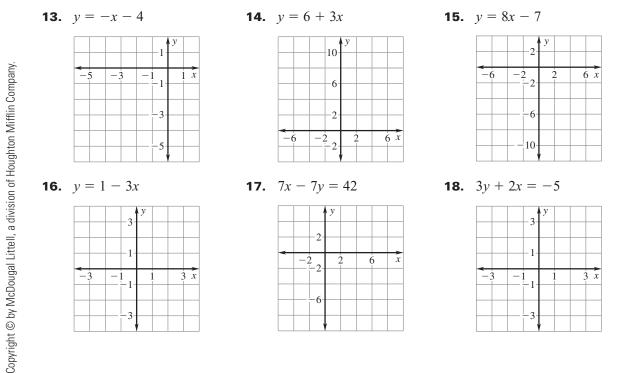
 $6\overline{x}$

12. *x*-intercept: 2 *y*-intercept: -3



Graph the equation. Label the points where the line crosses the axes.

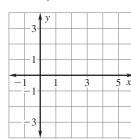
·6

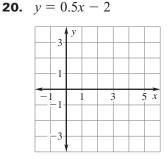


LESSON 4.3

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	Practice B	continued
4.3	For use with pages 225–2	32

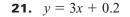
19. 4x - 9y = 16





Match the equation with its intercepts.

- **22.** 7y = 28 4x
- **A.** *x*-intercept: 4 *y*-intercept: -7
- **23.** 7x = 4y + 28**B.** *x*-intercept: -4
 - y-intercept: 7
- **25.** Rabbit Hutch The cage that you keep your rabbit in has a perimeter of 118 inches. Let *x* be the cage's width (in inches) and let *y* be its length (in inches).
 - **a.** Write an equation for the perimeter.
 - **b.** Find the intercepts of the graph of the equation you wrote. Then graph the equation.
- **26.** Home and Garden Show Admission to a home and garden show costs \$7 per person during the week and \$9 per person on the weekend. During one week of the show, a total of \$142,506 was paid in admissions. This situation can be represented by the equation 7x + 9y = 142,506 where *x* is the number of tickets sold during the week and *y* is the number of tickets sold on the weekend.
 - **a.** Find the intercepts of the graph of the equation. Graph the equation.
 - **b.** Give three possibilities for the number of each kind of ticket that could have been sold for the week.
- **27.** Burning Calories A man burns 10 calories per minute mountain biking and 7.5 calories per minute in-line skating. His goal is to burn approximately 420 calories daily. This situation can be represented by the equation 10x + 7.5y = 420 where x is the number of minutes spent mountain biking and y is the number of minutes spent in-line skating.
 - **a.** Find the intercepts of the graph of the equation. Graph the equation.
 - **b.** What do the intercepts mean in this situation?
 - **c.** What are three possible numbers of minutes of biking and skating the man could do to reach his goal?



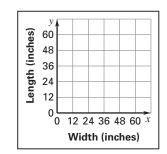
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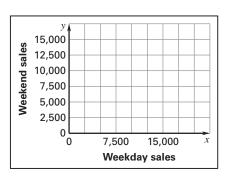
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- 1	1			1	l	x
- :	1	1		I		x
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24. 4y = 7x + 28

C. *x*-intercept: 7

y-intercept: 4







36

Algebra 1