LESSON 7.1

NAME _____ DATE _____

Practice B

For use with pages 398–403

Decide whether the ordered pair is a solution of the system of linear equations.

1. $(1, 1), (0, 3)$
$2x + y = 3$
$x - 2y = -1$

2. $(2, 4), (-3, 8)$
$4x + y = -4$
$-x - y = 1$

3. $(-5, -2), (4, 1)$
$x - y = 3$
$3x - y = 11$

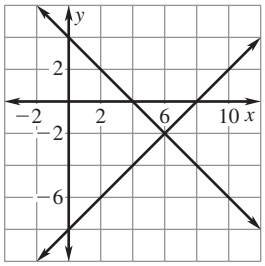
4. $(-6, -4), (-4, 0)$
$x - 3y = 6$
$2x - y = -8$

5. $(-3, -4), (3, 6)$
$-4x + y = 8$
$5x - 3y = -3$

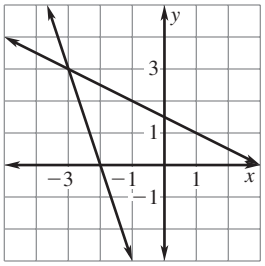
6. $(3, -4), (-6, 2)$
$-2x - y = 6$
$3x + 4y = -10$

Use the graph to solve the linear system. Check your solution algebraically.

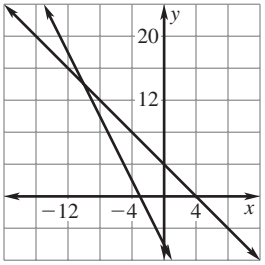
7. $-x + y = -8$
$x + y = 4$



8. $3x + y = -6$
$-x - 2y = -3$



9. $4x + 2y = -12$
$2x + 2y = 8$



Graph and check to solve the linear system.

10. $x = 6$
$y = -3$

11. $y = x - 2$
$y = -x - 4$

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

13. $-3x + y = 6$
$-x + y = -2$

14. $x + 2y = -6$
$-3x + y = -10$

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

16. ***Juice*** You bought 12 1-gallon bottles of apple and orange juice for a school dance. The apple juice was on sale for \$1.00 per gallon bottle. The orange juice was \$1.75 per 1-gallon bottle. You spent \$15.00. Assign labels to the verbal model below. Write an algebraic model. How many bottles of each type of juice did you buy?

Number of bottles of apple juice	+	Number of bottles of orange juice	=	Total number of bottles

Price per apple juice bottle	·	Number of bottles of apple juice	+	Price per orange juice bottle	·	Number of bottles of orange juice	=	Total price

17. ***Baseball Outs*** In a game, 18 of a baseball team's 27 outs were fly balls. Fifty percent of the outs made by infielders and 100% of the outs made by outfielders were fly balls. How many outs were made by infielders? How many outs were made by outfielders? (Hint: Write one equation for the total number of outs and another equation for the number of fly ball outs.)