LESSON 7.1

Practice A

For use with pages 426–434

Tell whether the ordered pair is a solution of the linear system.

1. $(0, -4)$;

$x + y = -4$

$x - 5y = 20$

2. $(3, 3)$;

$x + 2y = 9$

$4x - y = 15$

3. $(1, -2)$;

$2x - 3y = 8$

$3x + 2y = -1$

4. $(-4, -6)$;

$-3x + y = 6$

$-2x + y = -8$

5. $(4, -1)$;

$x - 4y = 8$

$-3x + 5y = -3$

6. $(2, -6)$;

$4x + 3y = -10$

$3x + 2y = -6$

Match the linear system with its graph.

7. $x - y = 2$

$x + y = 5$

8. $x + y = 2$

$x - y = 5$

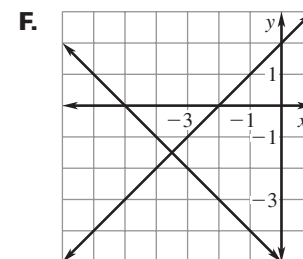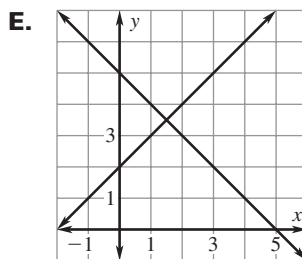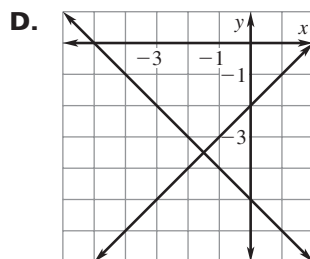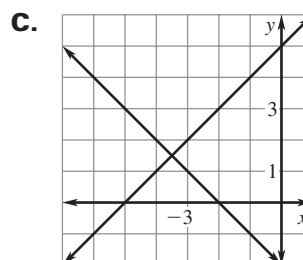**9.** $x + y = -2$

$x - y = -5$

10. $x - y = -2$

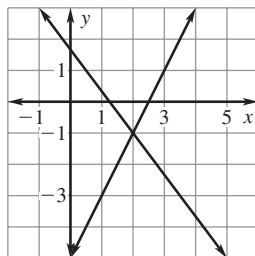$-x - y = 5$

11. $-x + y = 2$

$x + y = 5$

12. $x - y = 2$

$-x - y = 5$

A.

B.

C.

D.

E.

F.
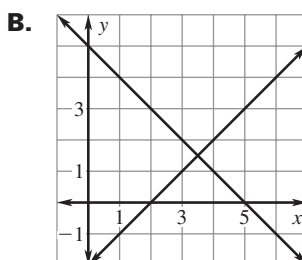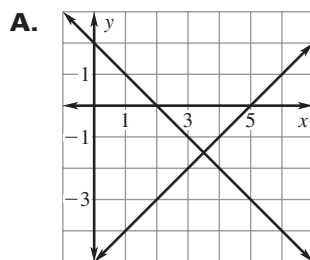
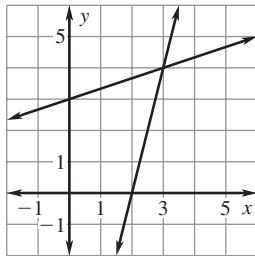**Use the graph to solve the linear system. Check your solution.**
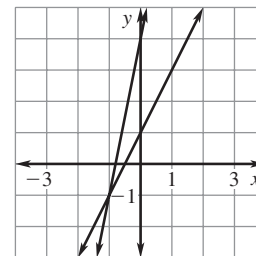
13. $4x + 3y = 5$

$2x - y = 5$

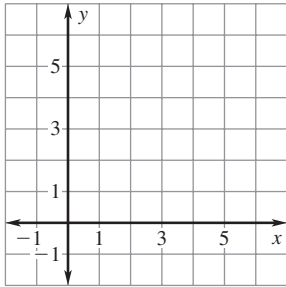**14.** $-x + 3y = 9$

$4x - y = 8$

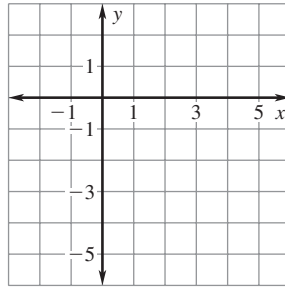
15. $5x - y = -4$

$-2x + y = 1$

LESSON 7.1

Practice A *continued*
For use with pages 426–434

LESSON 7.1

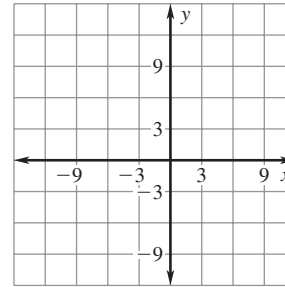**Solve the linear system by graphing. Check your solution.**
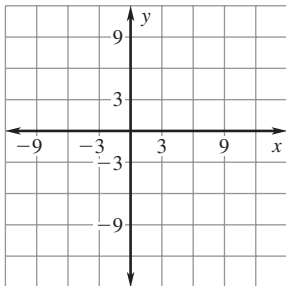
16. $y = -x + 6$
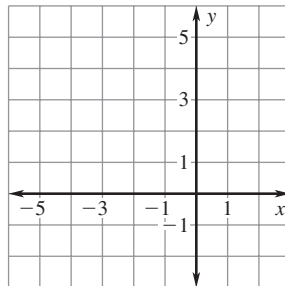$y = x - 2$

17. $y = -2x + 1$
$y = x - 5$

18. $4x - y = -12$
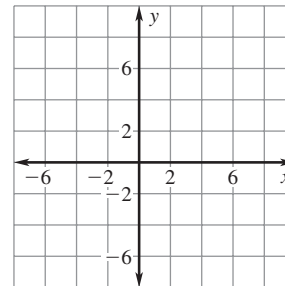$-x - y = 3$

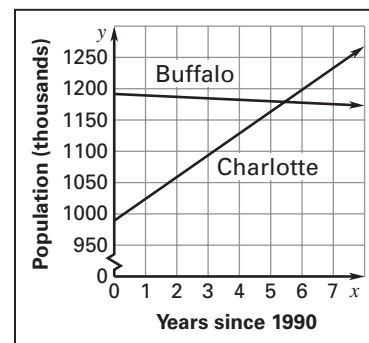**19.** $y = x$
$y = 4x - 9$

20. $y = -2x + 2$
$y = x + 5$

21. $3x + y = 7$
$-2x + y = -8$

22. **City Populations** The graph shows the estimated populations (in thousands of people) of the Buffalo, New York area and the Charlotte, North Carolina area. Use the graph to find the year in which the populations of these two areas were the same. What was the population?

23. **Juice** You bought 15 one-gallon bottles of apple juice and orange juice for a school dance. The apple juice was on sale for $1.50 per gallon bottle. The orange juice was $2 per gallon bottle. You spent $26. Write algebraic models for the situation. Then graph the algebraic models. How many bottles of each type of juice did you buy?