

Chapter Test A

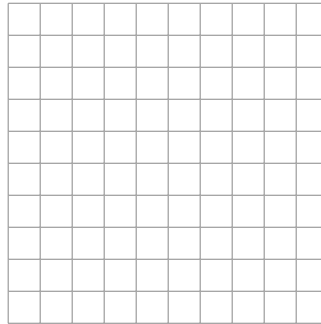
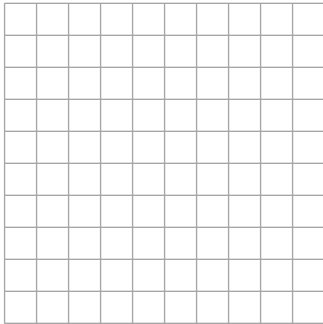
For use after Chapter 7

Is the ordered pair a solution of the system of linear equations?

1. $x + y = 5$ $(0, 5)$ 2. $-x + y = -3$ $(4, 1)$
 $-5x + 2y = 10$ $x + 3y = 6$

Graph and check to solve the linear system.

3. $-x + y = 3$ 4. $x = 4$
 $x + y = 5$ $y = 2$



1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Use the substitution method to solve the linear system.

5. $y = x + 2$ 6. $y = 3 - x$
 $3x + 2y = 9$ $-2x + y = 6$
7. You are selling tickets for a high school basketball game. Student tickets cost \$3 and general admission tickets cost \$5. You sell 350 tickets and collect 1450. How many of each type of ticket did you sell?

Use linear combinations to solve the linear system.

8. $x + y = 5$ 9. $x + y = 5$
 $x - y = 3$ $2x + y = 6$
10. A music store is selling compact discs for \$11.50 and \$7.50. You buy 12 discs and spend a total of \$110. How many compact discs that cost \$11.50 did you buy?

Solve the system using the method of your choice and tell how many solutions the system has.

11. $x + 2y = 5$ 12. $x + y = 1$
 $2x - 2y = 4$ $x + y = 3$

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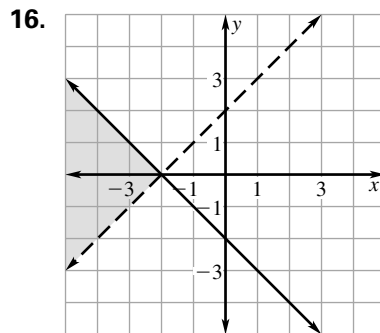
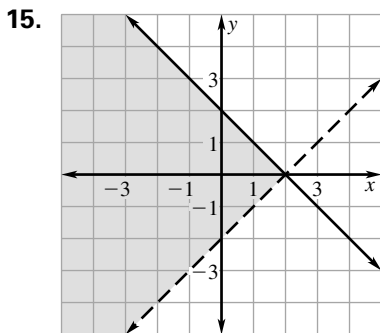
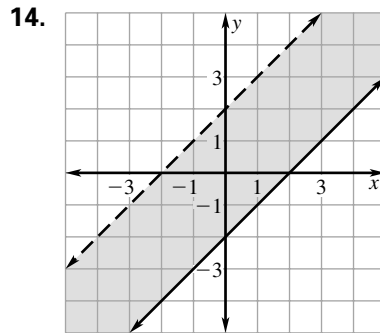
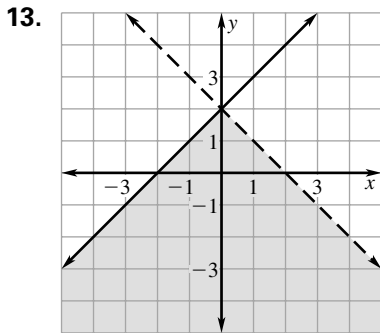
In Questions 13–16, match the system of linear inequalities with its graph.

A. $-x + y < 2$
 $-x + y \geq -2$

C. $-x + y > -2$
 $x + y \leq 2$

B. $-x + y > 2$
 $x + y \leq -2$

D. $-x + y \leq 2$
 $x + y < 2$



13. _____

14. _____

15. _____

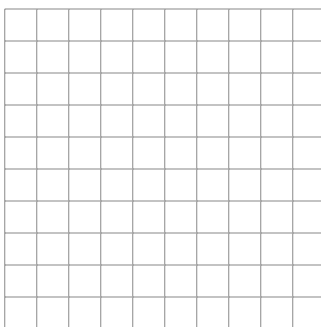
16. _____

17. _____

18. _____

Graph the system of linear inequalities.

17. $y \geq -2$
 $x < 2$



18. $y < x + 1$
 $y \geq 3$

