

Chapter Test A

For use after Chapter 7

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

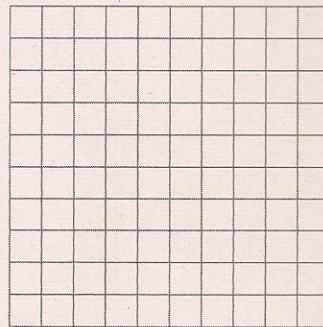
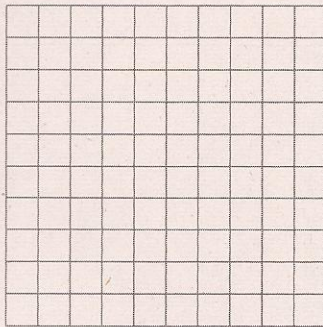
1. $x + y = 5$ $(0, 5)$
 $-5x + 2y = 10$

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

Graph and check to solve the linear system.

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

4. $x = 4$
 $y = 2$



Use the substitution method to solve the linear system.

5. $y = x + 2$
 $3x + 2y = 9$

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

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

9. $x + y = 5$
 $2x + y = 6$

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

12. $x + y = 1$
 $x + y = 3$

1. _____
2. _____
3. Use grid at left. _____
4. Use grid at left. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____