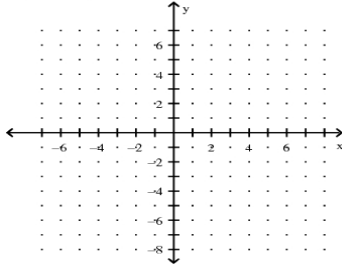


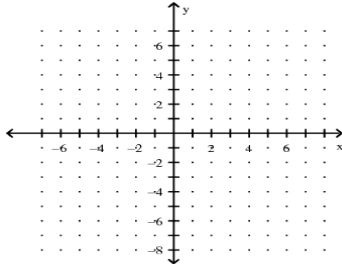
Algebra 2 Chapter 3 Test Review

Solve the system by graphing.

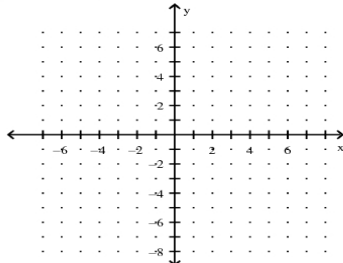
1.
$$\begin{cases} x - y + 6 = 0 \\ -2x + 2y = 4 \end{cases}$$



2.
$$\begin{cases} y = -x - 9 \\ 3x - y = -11 \end{cases}$$



3.
$$\begin{cases} -x - 4y = -4 \\ 2x - y = -1 \end{cases}$$



Solve the system.

4.
$$\begin{cases} -3x + y = -4 \\ 5x - 2y = 5 \end{cases}$$

5.
$$\begin{cases} -5x - 3y = -1 \\ 5x - 2y = 16 \end{cases}$$

6.
$$\begin{cases} 2x + 5y = -16 \\ 7x - 2y = -17 \end{cases}$$

7.
$$\begin{cases} 2x + 2y = 9 \\ -6x - 6y = -27 \end{cases}$$

8.
$$\begin{cases} -3x - y = -1 \\ 9x + 3y = -3 \end{cases}$$

9. The length of a rectangle is 7.7 cm more than 2 times the width. If the perimeter of the rectangle is 58.6 cm, what are its dimensions?

10. Solve the system.

$$4x + 3y = -6$$

$$5x - 6y = -27$$

11. A rental car agency charges a flat fee of \$20.00 plus \$1.50 per day to rent a certain car. Another agency charges a fee of \$14.75 plus \$3.25 per day to rent the same car.

- Write a system of equations to represent the cost c for renting a car at each agency for d days.
- Using a graphing calculator, find the number of days for which the costs are the same. Round your answer to the nearest whole day.