

Practice 3-1**Graphing Systems of Equations**Classify each system without graphing (*independent, inconsistent, or dependent*).

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

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

3.
$$\begin{cases} x + 3y = 9 \\ -2x - 6y = -18 \end{cases}$$

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

5.
$$\begin{cases} x + 3y = 9 \\ 9y + 3x = 27 \end{cases}$$

6.
$$\begin{cases} x + 2y = 5 \\ 2x + 3y = 9 \end{cases}$$

10.
$$\begin{cases} x + 2y = 13 \\ 2y = 7 - x \end{cases}$$

11.
$$\begin{cases} y = 12 - 5x \\ x - 4y = -6 \end{cases}$$

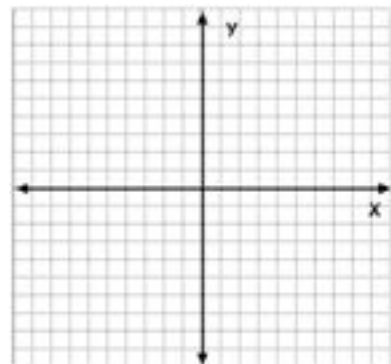
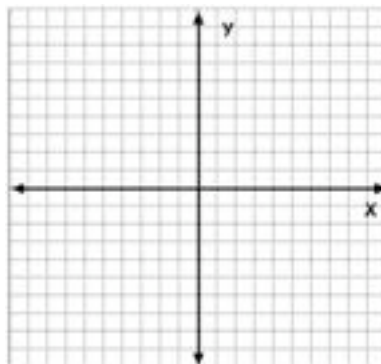
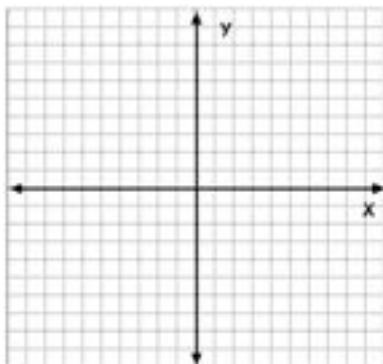
12.
$$\begin{cases} 25x - 10y = 0 \\ 2y = 5x \end{cases}$$

Solve each system by graphing. Check your answers.

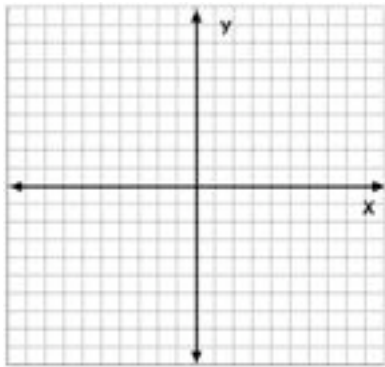
14.
$$\begin{cases} y = x - 2 \\ x + y = 10 \end{cases}$$

15.
$$\begin{cases} y = 7 - x \\ x + 3y = 11 \end{cases}$$

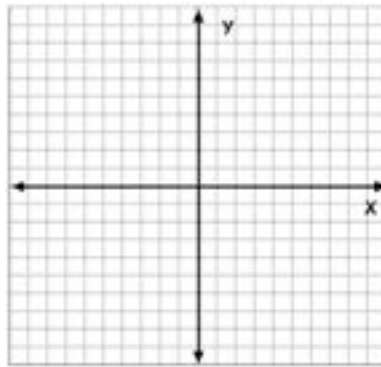
16.
$$\begin{cases} x - 2y = 10 \\ y = x - 11 \end{cases}$$



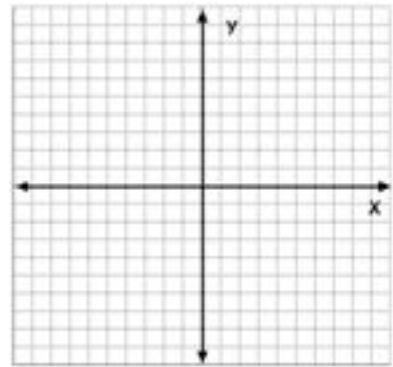
$$20. \begin{cases} 4x + 3y = -16 \\ -x + y = 4 \end{cases}$$



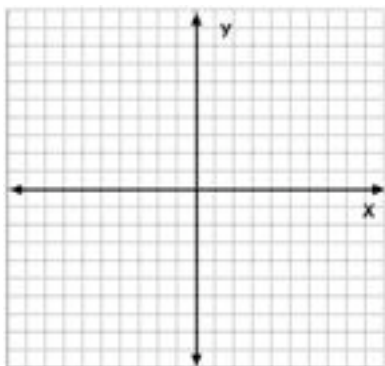
$$21. \begin{cases} y = -3x \\ x + y = 2 \end{cases}$$



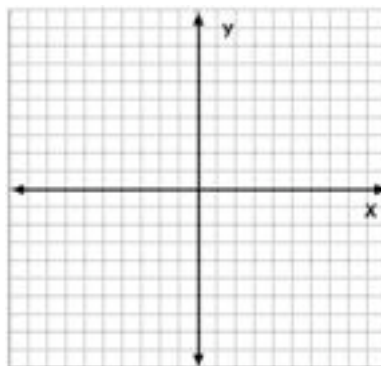
$$22. \begin{cases} y = \frac{2}{3}x - 5 \\ y = -\frac{2}{3}x - 3 \end{cases}$$



$$23. \begin{cases} y = \frac{1}{2}x + 3 \\ y = -\frac{1}{4}x - 3 \end{cases}$$



$$24. \begin{cases} 2x - 4y = -4 \\ 3x - y = 4 \end{cases}$$



$$25. \begin{cases} x + y = 6 \\ x - y = 4 \end{cases}$$

