

LESSON
6-1

Practice Worksheet
Solving Systems by Graphing

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

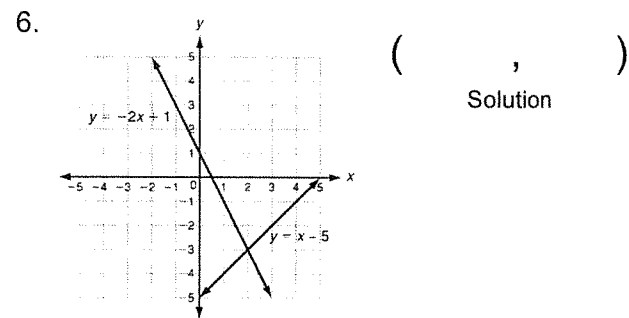
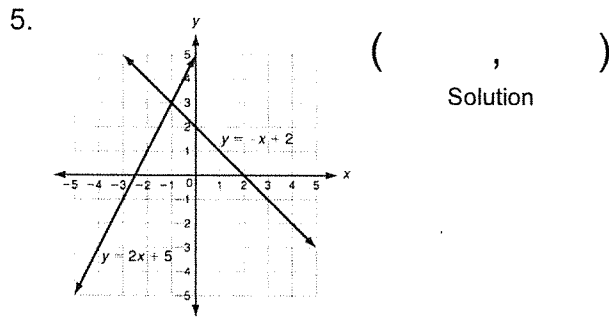
1. $(0, -4); \begin{cases} x + 2y = -8 \\ x = 4 + y \end{cases}$

2. $(2, 5); \begin{cases} x + y = 7 \\ 3x + y = 10 \end{cases}$

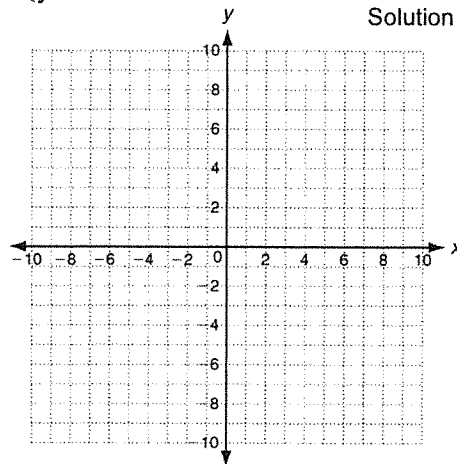
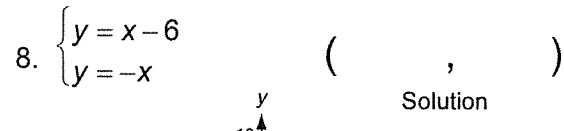
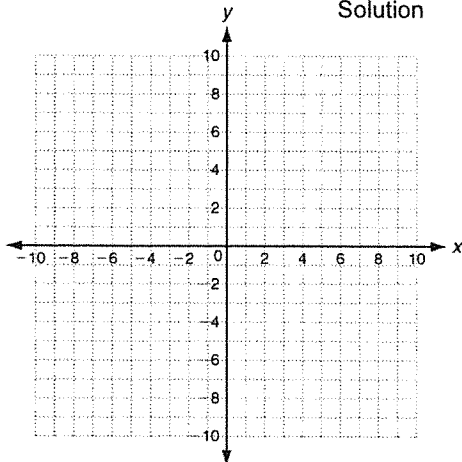
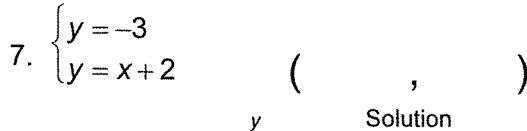
3. $(-3, 1); \begin{cases} 2x + y = 5 \\ x + 3y = -6 \end{cases}$

4. $(-3, 9); \begin{cases} y = x + 12 \\ y = -3x \end{cases}$

Find the solution of each system of equations graphed below.

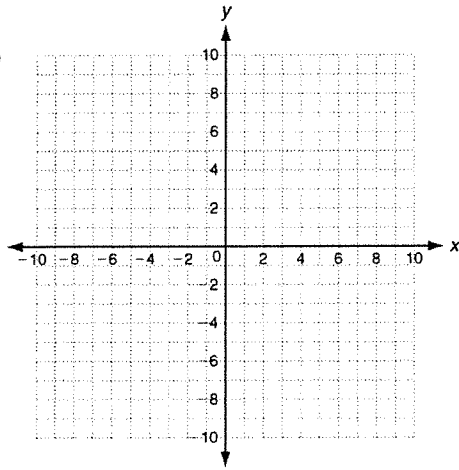


Solve each system by graphing.

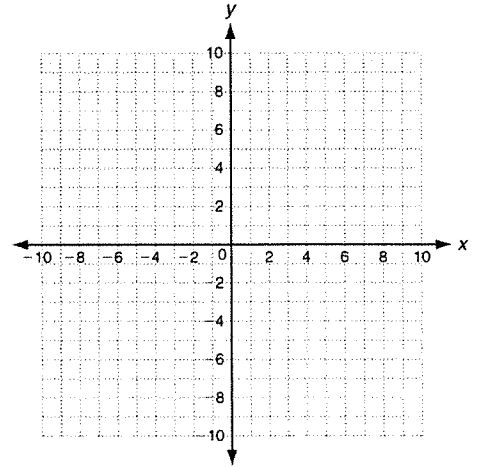


Solve each System of equations by graphing. *REMEMBER: Both equations must 1st be solved for "y" before graphing.*

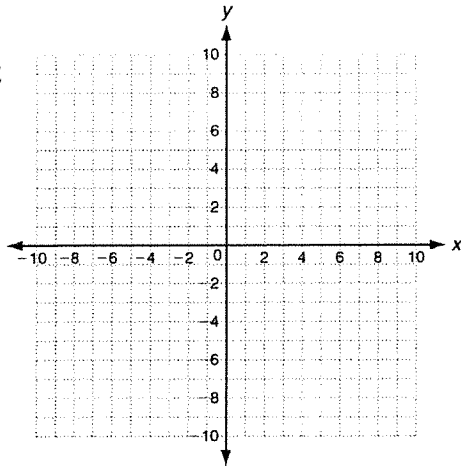
9.
$$\begin{cases} y = -\frac{5}{3}x + 3 \\ y = \frac{1}{3}x - 3 \end{cases}$$



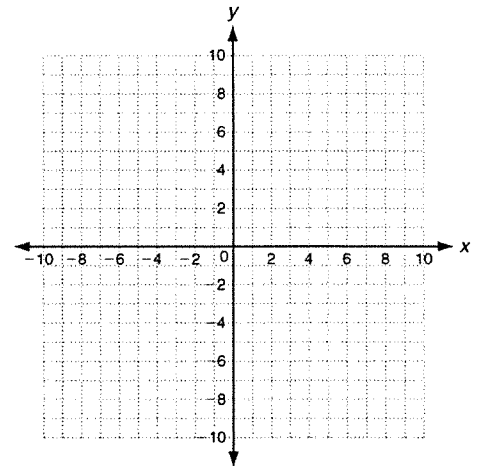
12.
$$\begin{cases} 4x - y = 3 \\ x + y = -2 \end{cases}$$



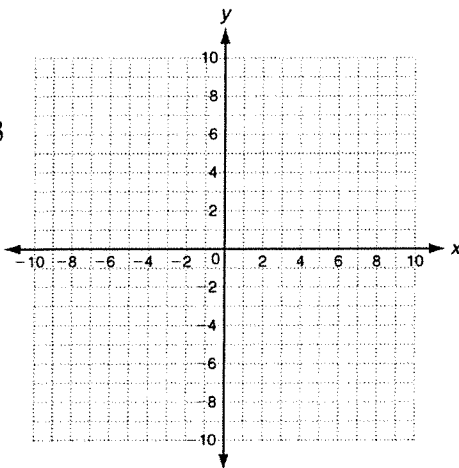
10.
$$\begin{cases} y = -2x + 2 \\ y = -2x - 5 \end{cases}$$



13.
$$\begin{cases} x + 2y = -4 \\ 3x + 2y = 4 \end{cases}$$



11.
$$\begin{cases} 3x - y = 4 \\ y = -\frac{1}{2}x + 3 \end{cases}$$



SUBSTITUTION METHOD WORKSHEET

$$\begin{aligned} 1) \quad 2x + 8y &= 20 \\ y &= 2 \end{aligned}$$

$$\begin{aligned} 2) \quad x &= 5 \\ 2x + y &= 10 \end{aligned}$$

$$\begin{aligned} 3) \quad 5x - 2y &= 3 \\ y &= 2x \end{aligned}$$

$$\begin{aligned} 4) \quad 2y + x &= -15 \\ x &= 3y \end{aligned}$$

$$\begin{aligned} 5) \quad 4x + 7y &= 19 \\ y &= x + 9 \end{aligned}$$

$$\begin{aligned} 6) \quad y &= 6x + 11 \\ 2y - 4x &= 14 \end{aligned}$$

$$7) \begin{aligned} 2x - 8y &= 6 \\ y &= -7 - x \end{aligned}$$

$$8) \begin{aligned} x &= 2y - 1 \\ 3x - 2y &= -3 \end{aligned}$$

$$9) \begin{aligned} y &= 3 - x \\ 3y + x &= 5 \end{aligned}$$

$$10) \begin{aligned} 2x - 3y &= -4 \\ x &= 7 - 3y \end{aligned}$$

HARDCORE PROBLEM

$$11) \begin{aligned} 5x &= 15 + 10y \\ 3x + 7y &= 31 \end{aligned}$$