

# Chapter 7 Section 5 Worksheet

Determine whether the given ordered pair is a solution to the system.

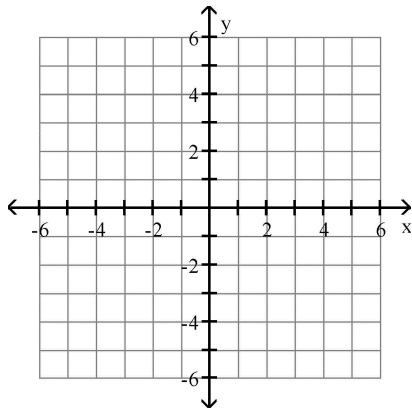
1)  $(6, 2)$   
 $2x + y = 14$   
 $3x + 2y = 22$

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

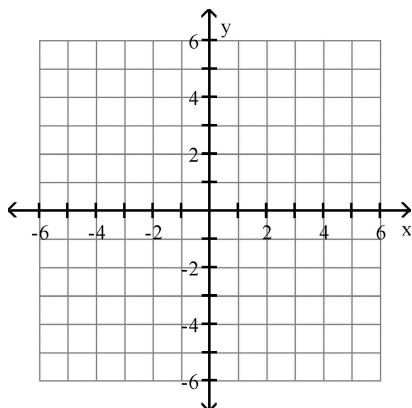
3)  $(4, 2)$   
 $7x - 6y = 16$   
 $9y = 3x + 7$

Solve the system by graphing.

4)  $4x + y = -7$   
 $5x + 6y = 15$



5)  $-2x - 2y = -22$   
 $4x - 2y = 26$



Solve the system by the substitution method.

6)  $x + 4y = 36$   
 $-7x + 5y = 45$

$$\begin{aligned} 7) \quad & x - 5y = -7 \\ & -2x - 4y = 14 \end{aligned}$$

**Solve the system by the substitution method. Be sure to check all proposed solutions.**

$$\begin{aligned} 8) \quad & x + y = 6 \\ & y = 2x \end{aligned}$$

$$\begin{aligned} 9) \quad & x + 4y = 54 \\ & y = 3x + 7 \end{aligned}$$

**Solve the system by the addition method.**

$$\begin{aligned} 10) \quad & x + y = 3 \\ & x - y = -11 \end{aligned}$$

$$\begin{aligned} 11) \quad & x - 5y = 27 \\ & -2x - 5y = 36 \end{aligned}$$

$$\begin{aligned} 12) \quad & x - 2y = -24 \\ & -6x - 3y = 9 \end{aligned}$$

**Solve the system by the addition method. Be sure to check all proposed solutions.**

$$\begin{aligned} 13) \quad & 2x = 13y + 5 \\ & -7x + 42y = 7 \end{aligned}$$