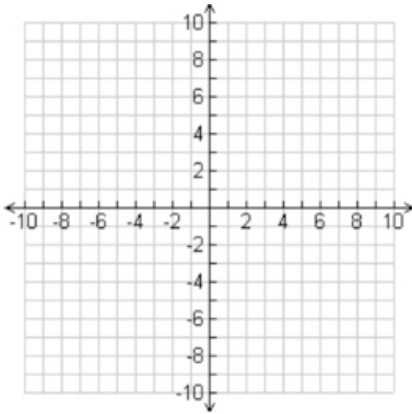
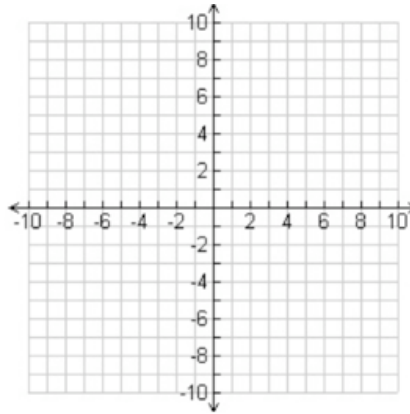


Solve each system of equations by graphing.

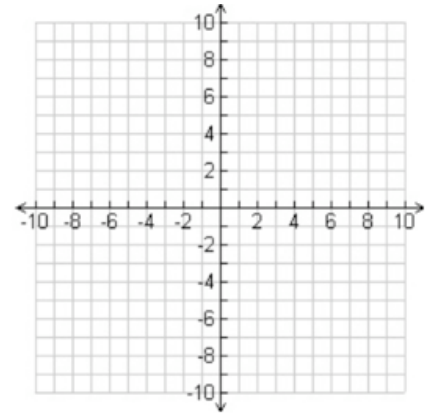
1) 
$$\begin{cases} x + y = 2 \\ x - y = 4 \end{cases}$$



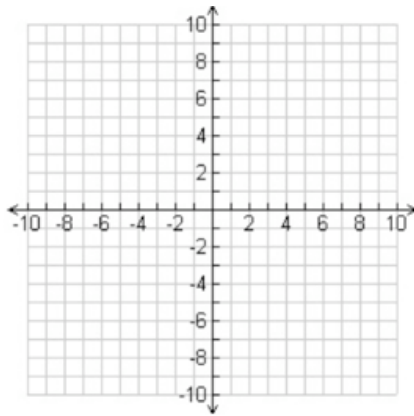
2) 
$$\begin{cases} 3x - 5y = 15 \\ y = 3 \end{cases}$$



3) 
$$\begin{cases} 3x + y = 5 \\ -x - y = 1 \end{cases}$$



4) 
$$\begin{cases} -4x - 2y = -8 \\ y = 2x + 4 \end{cases}$$



Solve each system of equations by substitution.

5) 
$$\begin{cases} 2x + 5y = -7 \\ 7x + y = -8 \end{cases}$$

6) 
$$\begin{cases} x - 3y = -24 \\ 5x + 8y = -5 \end{cases}$$

7) 
$$\begin{cases} 2x + 3y = 4 \\ y = 5x - 27 \end{cases}$$

8) 
$$\begin{cases} x + 4y = 19 \\ x - 2y = 1 \end{cases}$$

Solve each system of equations by elimination.

9) 
$$\begin{cases} x - 3y = -13 \\ 3x + 7y = 25 \end{cases}$$

10) 
$$\begin{cases} 2x + 8y = 6 \\ 5x + 20y = 15 \end{cases}$$

11) 
$$\begin{cases} 7x - y = 19 \\ 2x - 3y = 19 \end{cases}$$

12) 
$$\begin{cases} 4x - y = -4 \\ 5x = 2y + 1 \end{cases}$$

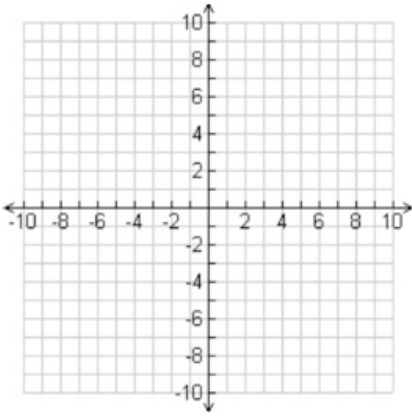
13) 
$$\begin{cases} x + 2y = 3 \\ 5x + 3y = 8 \end{cases}$$

14) 
$$\begin{cases} 2x = 8y - 2 \\ 3x - 3y = 15 \end{cases}$$

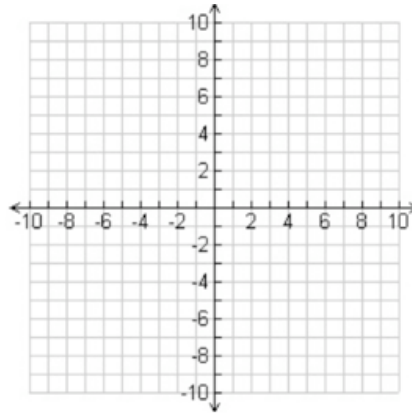
**15) Set up and Solve** the system of equations: The sum of two number is 30 and their difference is 12. Find the two numbers.

Graph the following linear inequalities.

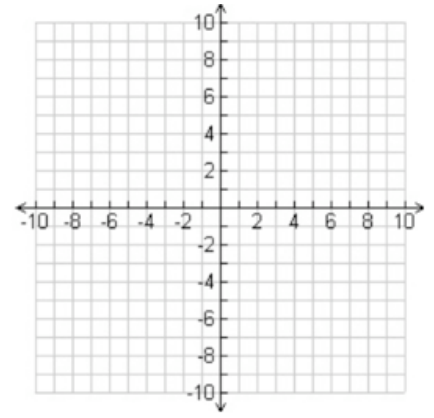
16)  $2x - 4y < 8$



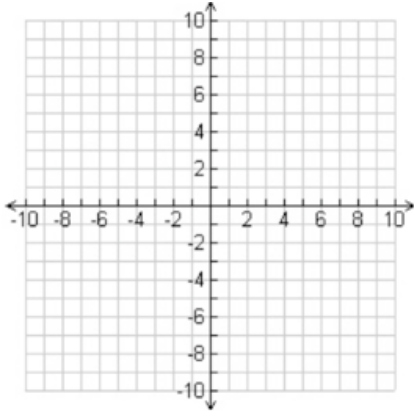
17)  $y \geq -3$



18)  $2x - 3y < 6$

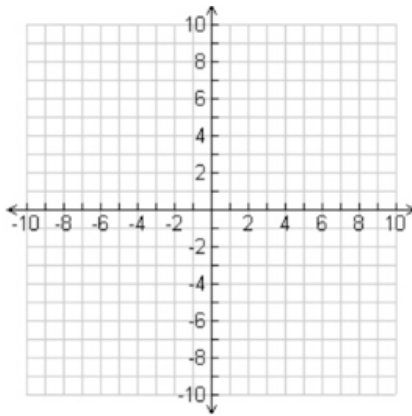


19)  $x \geq -3$

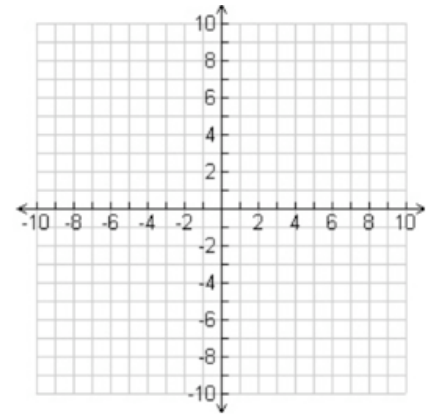


Graph the following systems of linear inequalities.

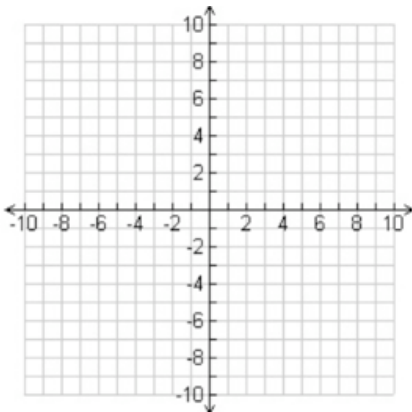
20)  $\begin{cases} y < 2x - 3 \\ y > -x + 1 \end{cases}$



21)  $\begin{cases} x - y \geq 0 \\ 4x + 3y < 18 \end{cases}$



22)  $\begin{cases} y < 3x - 2 \\ y > -x + 3 \end{cases}$



23)  $\begin{cases} 2x - y \geq 0 \\ 3x + y < 5 \end{cases}$

