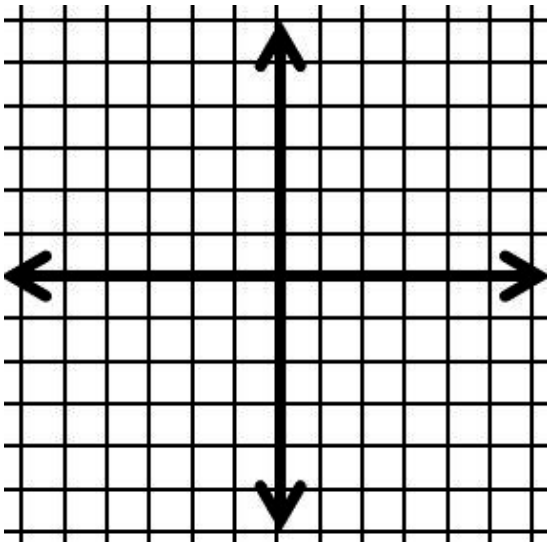
Solving Systems of Equations

Example 1:

Solve the linear system by graphing.

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



Example 7:

Solve the linear system using the elimination method.

$$\begin{cases} 4x + 3y = 8 \\ x - 2y = 13 \end{cases}$$

Elimination

Example 5:

Solve the linear system using the elimination method.

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

Example 6:

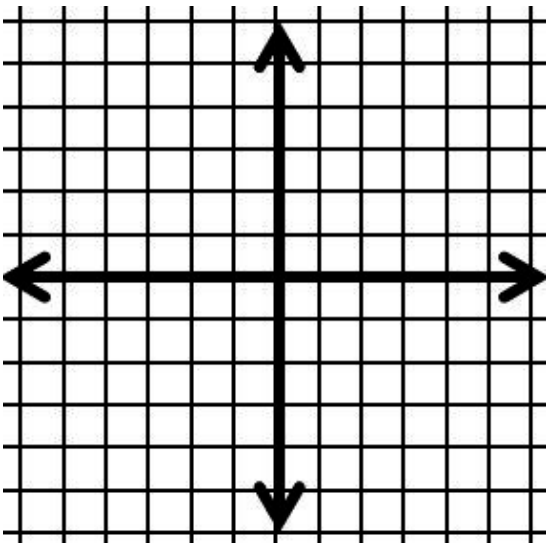
Solve the linear system using the elimination method.

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

Example 3:

Solve the linear system by graphing.

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



Graphing

Example 3:

Solve the linear system using the substitution method.

$$\begin{cases} y = 2x + 5 \\ 3x + y = 10 \end{cases}$$

Example 4:

Solve the linear system using the substitution method.

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