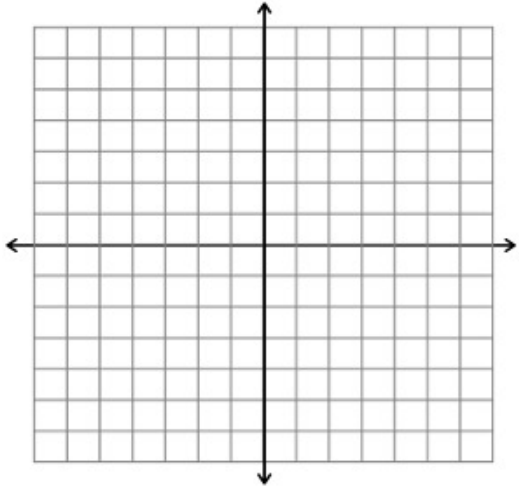


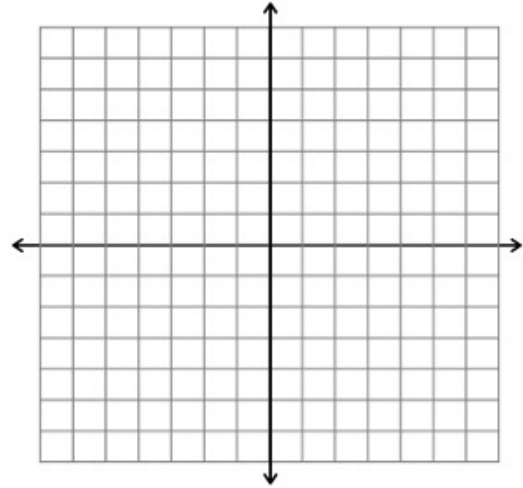
**Objective:** I can solve linear systems by substitution, elimination and graphing.

Solve each system by graphing.

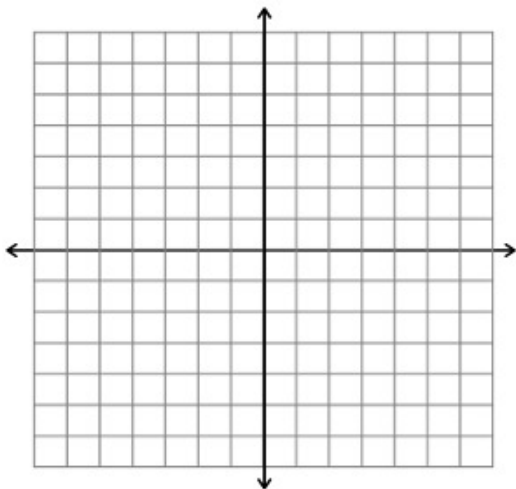
1. 
$$\begin{cases} y = -3x + 4 \\ y = 3x - 2 \end{cases}$$



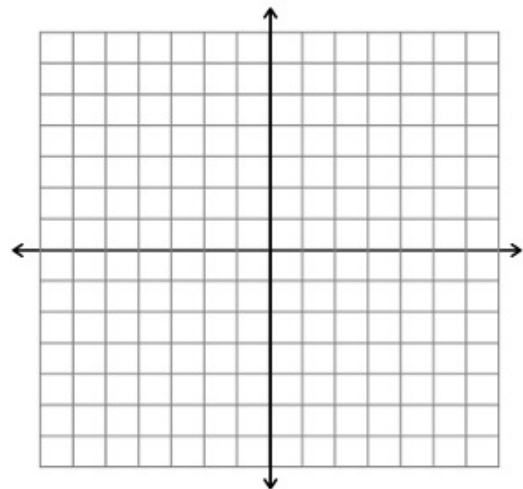
2. 
$$\begin{cases} y = x + 2 \\ x = -3 \end{cases}$$



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



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



Solve each system by Substitution.

$$5. \begin{cases} y = 4x - 9 \\ y = x - 3 \end{cases}$$

$$6. \begin{cases} 4x + 2y = 10 \\ x - y = 13 \end{cases}$$

$$7. \begin{cases} y = -5 \\ 5x + 4y = -20 \end{cases}$$

$$8. \begin{cases} x + 7y = 0 \\ 2x - 8y = 22 \end{cases}$$

Solve each system by Elimination

$$9. \begin{cases} 8x - 6y = -20 \\ -16x + 7y = 30 \end{cases}$$

$$10. \begin{cases} 6x - 12y = 24 \\ -x - 6y = 4 \end{cases}$$

$$11. \begin{cases} -8x - 10y = 24 \\ 6x + 5y = 2 \end{cases}$$

$$12. \begin{cases} -4x - 11y = 36 \\ 20 = -10x - 10y \end{cases}$$

13. Write a system of equations with the solution (4,-3)

## Answer Key

1.  $(1, 1)$
3.  $(-1, -4)$
5.  $(2, -1)$
7.  $(0, -5)$
9.  $(-1, 2)$
11.  $(7, -8)$