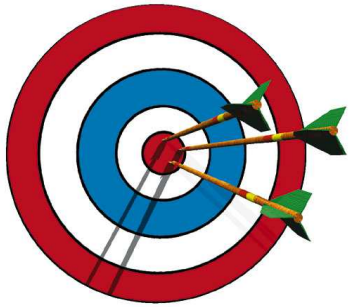


Systems of Equations: Elimination

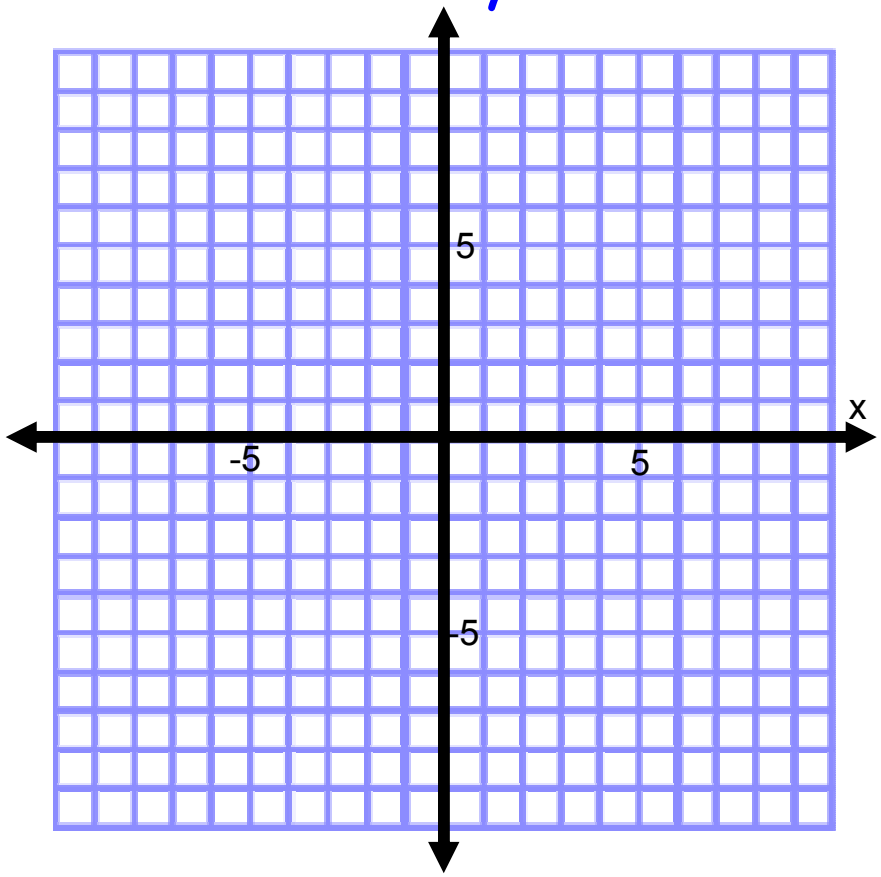
Today's Learning Targets:

6.6 I can solve a system using elimination/linear combination.

Consider the system:

$y = x + 2$

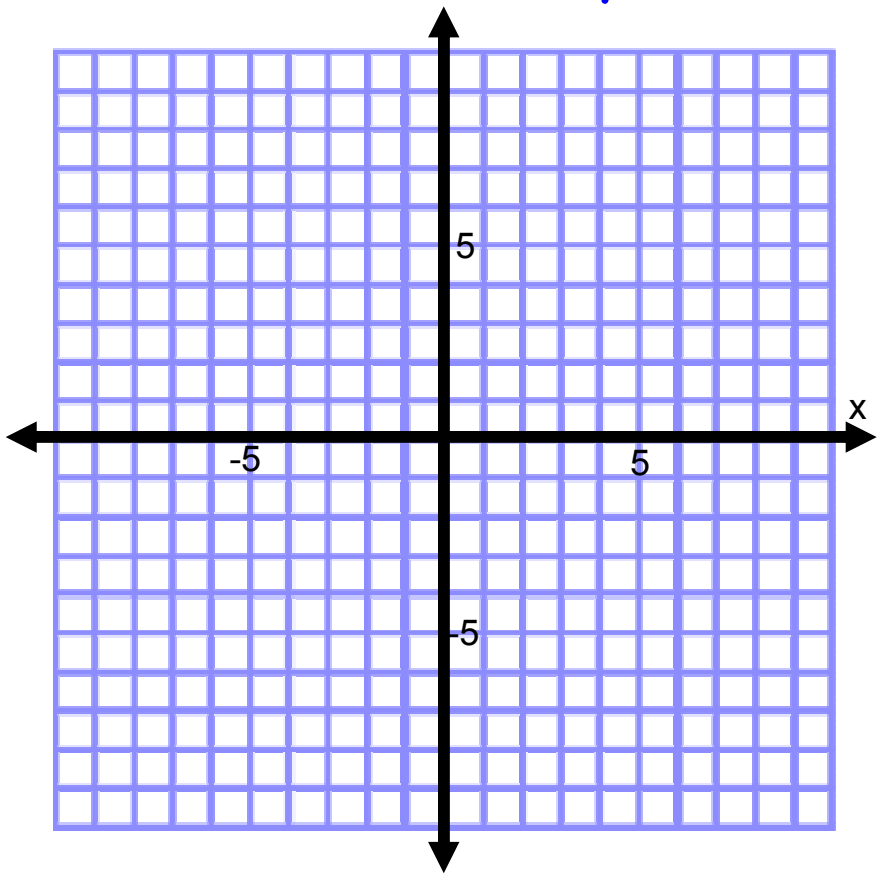
$y = 3x - 2$



Consider the system:

$2x - 4y = 14$

$-2x + 3y = -11$



Can it be solved by graphing?

Is it convenient?

Consider the system:

$$2x - 2y = -5$$

$$y = -2x + 1$$

Consider the system:

$$2x - 4y = 14$$
$$-2x + 3y = -11$$

Can it be solved using substitution? Is it easy?

ELIMINATION is here!

$$\begin{array}{rl} & 2x - 4y = 14 \\ + & -2x + 3y = -11 \\ \hline \end{array}$$

Elimination

1. _____

AP _____

2. _____

AP _____

3. _____

AP _____

4. _____

AP _____

5.  _____

_____

Elimination:

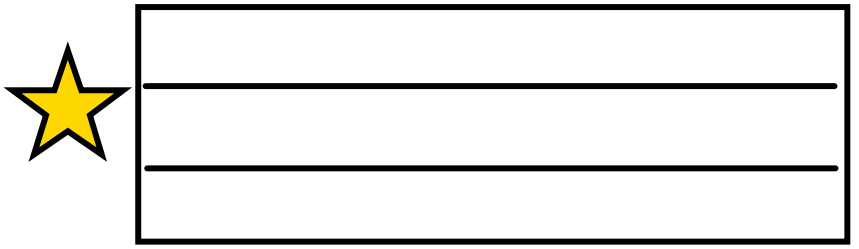
$$4x - 3y = 9$$
$$+\ \ x + 3y = 6$$

Elimination:

$$\begin{array}{rl} & x + y = 11 \\ + & x - y = 7 \\ \hline \end{array}$$

Create the Opposite:

$$\begin{array}{rl} & 4x - 3y = -3 \\ + & 4x + 5y = \ \ 5 \\ \hline \end{array}$$



Create the Opposite:

$$-x - 5y = 30$$
$$+2x - 7y = 25$$