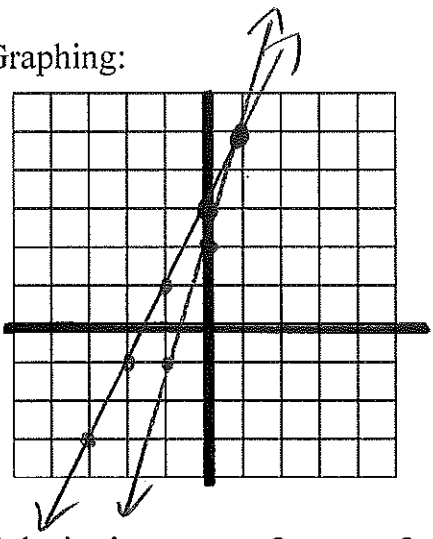


Name KEY

Solve the system of equations by graphing, substitution, and the addition method.

1. $-2x + y = 3$
 $3x - y = -2$

Graphing:



$$\begin{array}{r} -2x + y = 3 \\ +2x \quad +2x \\ \hline y = 2x + 3 \end{array}$$

$$\begin{array}{r} 3x - y = -2 \\ -3x \quad -3x \\ \hline -y = -3x - 2 \\ \frac{-y}{-1} = \frac{-3x - 2}{-1} \\ y = 3x + 2 \end{array}$$

(1, 5)

Substitution:

$$\begin{array}{l} -2x + y = 3 \\ 3x - y = -2 \end{array}$$

→

$$\begin{array}{r} -2x + y = 3 \\ +2x \quad +2x \\ \hline y = 2x + 3 \end{array}$$
$$y = 2(1) + 3$$
$$y = 5$$

$$3x - (2x + 3) = -2$$

$$\begin{array}{r} 3x - 2x - 3 = -2 \\ \quad \quad +3 \quad +3 \\ \hline x = 1 \end{array}$$

(1, 5)

Addition:

$$\begin{array}{r} -2x + y = 3 \\ + 3x - y = -2 \\ \hline x = 1 \end{array}$$

$$\begin{array}{r} -2(1) + y = 3 \\ -2 + y = 3 \\ \quad \quad +2 \quad \quad +2 \\ \hline y = 5 \end{array}$$

Solution: (1, 5)