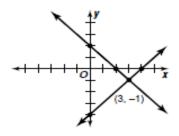
## Solve a System by Graphing WS

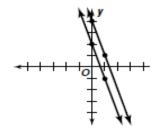
Examples: Solve each system of equations by graphing.

$$x + y = 2$$
$$x - y = 4$$

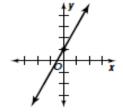


The point (3, -1) lies on both lines, thus (3, -1) is the solution set for the system of equations.

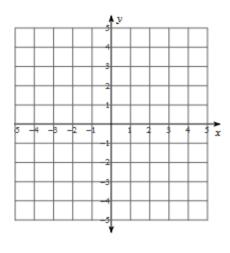
$$3x + y = 2$$
$$3x + y = 4$$
no solution



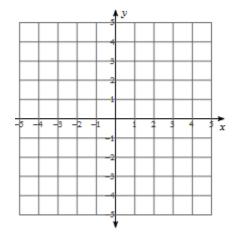
y = 2x + 1 2y = 4x + 2infinitely many solutions



1. 
$$y = -\frac{2}{3}x + 1$$
  
 $y = -\frac{7}{2}x - 4$ 

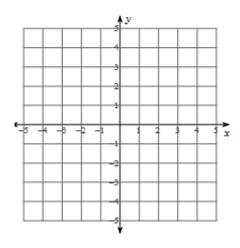


$$y = -x + 4$$
$$y = 6x - 3$$



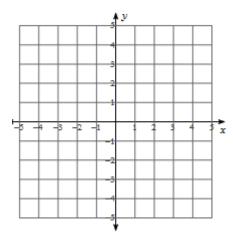
$$y = \frac{3}{4}x - 4$$

$$y = \frac{3}{4}x + 2$$

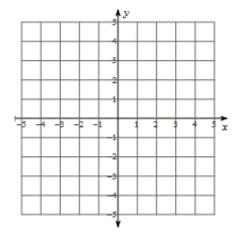


4.

$$y = -1$$
$$y = \frac{3}{4}x + 2$$



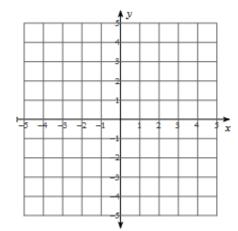
$$7x + 4y = -12$$
$$x + 2y = 4$$



6.

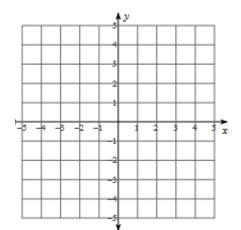
$$x-y=2$$

$$x + y = 4$$



7.

$$\begin{aligned}
x + y &= 1 \\
3x + 3y &= 3
\end{aligned}$$



8.

$$4x - 2y = 4$$
$$4x - 2y = 0$$

$$4x - 2y = 0$$

