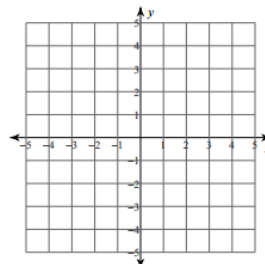


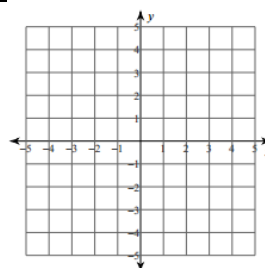
Systems of Equations (One, Infinite or No Solution)

Solving systems of equations can be done a few ways such as **graphically**, **substitution** or **elimination**. For #1-5 use the graph to determine if there is **one**, **infinite** or **no solution**.

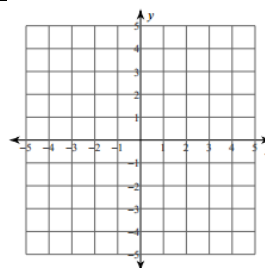
1. $y = x - 5$
 $y = -2x + 4$



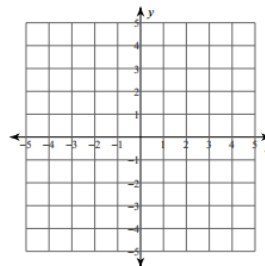
2. $y = 2x - 3$
 $y = 2x + 2$



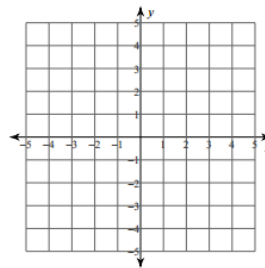
3. $y = x + 4$
 $2y - 2x = 8$



4. $3x - y = 3$
 $6x - 2y = 6$



5. $y = \frac{1}{2}x - 2$
 $y = x$



For #6-15 use **elimination** or **substitution** to determine if there is **one**, **infinite** or **no solution**.

6.
$$\begin{aligned} 3x+5y &= 1 \\ -6x-10y &= 14 \end{aligned}$$

11.
$$\begin{aligned} -7x-2y &= 0 \\ 14x+7y &= 0 \end{aligned}$$

7.
$$\begin{aligned} -3x+4y &= 3 \\ -12x+16y &= 8 \end{aligned}$$

12.
$$\begin{aligned} x-8y &= 1 \\ -3x-6y &= -3 \end{aligned}$$

8.
$$\begin{aligned} 7x+3y &= 0 \\ 14x+6y &= 0 \end{aligned}$$

13.
$$\begin{aligned} 2x+14y &= 4 \\ x+7y &= 7 \end{aligned}$$

9.
$$\begin{aligned} 4x+16y &= 16 \\ -2x-8y &= -6 \end{aligned}$$

14.
$$\begin{aligned} 6x+y &= -1 \\ -6x-4y &= 4 \end{aligned}$$

10.
$$\begin{aligned} -16x-20y &= 12 \\ -8x-10y &= 6 \end{aligned}$$

15.
$$\begin{aligned} -3x+12y &= 9 \\ x-4y &= -3 \end{aligned}$$