

Systems of Equations Worksheet 4

Without graphing, determine whether there is “no solution,” “one solution” or “infinite solutions” to the system of equations.

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

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

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

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

5.
$$\begin{cases} y = 3x + 4 \\ y = -\frac{1}{3}x + 4 \end{cases}$$

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

7.
$$\begin{cases} y = -3x + 1 \\ 6x + 2y = 2 \end{cases}$$

8.
$$\begin{cases} y - 2x = 4 \\ y = 2x - 3 \end{cases}$$

9.
$$\begin{cases} y = -2x + 3 \\ 2x - y = 7 \end{cases}$$

10.
$$\begin{cases} y = \frac{1}{2}x - 1 \\ y = \frac{1}{2}x + 1 \end{cases}$$

11.
$$\begin{cases} y = 3x + 2 \\ y = -3x + 2 \end{cases}$$

12.
$$\begin{cases} y = 3x - 1 \\ y = 3x - 1 \end{cases}$$