

# Solutions to Systems of Equations

Determine if each given ordered pair is a solution to the system of equations. Circle your answer.

1 Is  $(0, 2)$  a solution to the system of equations below?

$$\begin{aligned}x - y &= -2 \\ -2x + y &= 4\end{aligned}$$

Yes  No

2 Is  $(3, -1)$  a solution to the system of equations below?

$$\begin{aligned}3x + y &= 8 \\ x - 5y &= 8\end{aligned}$$

Yes No

3 Is  $(-2, 4)$  a solution to the system of equations below?

$$\begin{aligned}-7x - 2y &= 6 \\ -2x + 2y &= 12\end{aligned}$$

Yes No

4 Is  $(-3, -5)$  a solution to the system of equations below?

$$\begin{aligned}y &= 2x + 1 \\ y &= -5\end{aligned}$$

Yes No

5 Is  $(1, 6)$  a solution to the system of equations below?

$$\begin{aligned}x &= 6 \\ 4x + 6y &= 30\end{aligned}$$

Yes  No

6 Is  $(1, -11)$  a solution to the system of equations below?

$$\begin{aligned}y &= 15x - 4 \\ y &= 9x + 2\end{aligned}$$

Yes  No

7 Is  $(8, 3)$  a solution to the system of equations below?

$$\begin{aligned}y &= -x + 11 \\ y &= 7x - 13\end{aligned}$$

Yes  No

8 Is  $(-1, -6)$  a solution to the system of equations below?

$$\begin{aligned}y &= -9x - 15 \\ y &= 8x + 2\end{aligned}$$

Yes No

9 Is  $(3, 3)$  a solution to the system of equations below?

$$\begin{aligned}9x - 6y &= 9 \\ y &= 3x - 12\end{aligned}$$

Yes  No

10 Is  $(-2, 0)$  a solution to the system of equations below?

$$\begin{aligned}\frac{1}{2}x + 3y &= -1 \\ 5x - \frac{1}{3}y &= -10\end{aligned}$$

Yes No

11 Is  $(-5, -10)$  a solution to the system of equations below?

$$\begin{aligned}-\frac{2}{5}x + \frac{1}{5}y &= 4 \\ y &= -4x - 10\end{aligned}$$

Yes  No

12 Is  $(-4, 8)$  a solution to the system of equations below?

$$\begin{aligned}y &= -\frac{1}{2}x + 6 \\ y &= -\frac{3}{4}x + 5\end{aligned}$$

Yes No