

Name:

Date: Score:

Systems of Linear Equations Worksheet

Solve each system of equation using substitution method

$$\begin{aligned} \boxed{1} \quad x &= 3y \\ x - 6y &= 2 \end{aligned}$$

$$\begin{aligned} \boxed{2} \quad x &= -2y \\ x - y &= 9 \end{aligned}$$

$$\begin{aligned} \boxed{3} \quad -5x + y &= -3 \\ 3x - 8y &= 24 \end{aligned}$$

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

$$\begin{aligned} \boxed{5} \quad y + 4 &= 3x \\ 2y - 4x &= -4 \end{aligned}$$

$$\begin{aligned} \boxed{6} \quad y &= x - 4 \\ -4x - 6y &= -16 \end{aligned}$$

$$\begin{aligned} \boxed{7} \quad x - y &= 3 \\ 7x - y &= -3 \end{aligned}$$

$$\begin{aligned} \boxed{8} \quad y &= -5 \\ 5x + 4y &= -20 \end{aligned}$$

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Answers

$$\begin{aligned} \boxed{1} \quad x &= 3y \\ x - 6y &= 2 \end{aligned}$$

$$\begin{aligned} x &= 3 \\ y &= -\frac{2}{3} \end{aligned}$$

$$\begin{aligned} \boxed{2} \quad x &= -2y \\ x - y &= 9 \end{aligned}$$

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

$$\begin{aligned} \boxed{3} \quad -5x + y &= -3 \\ 3x - 8y &= 24 \end{aligned}$$

$$\begin{aligned} x &= 0 \\ y &= -3 \end{aligned}$$

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

$$\begin{aligned} y &= 0 \\ x &= 4 \end{aligned}$$

$$\begin{aligned} \boxed{5} \quad y + 4 &= 3x \\ 2y - 4x &= -4 \end{aligned}$$

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

$$\begin{aligned} \boxed{6} \quad y &= x - 4 \\ -4x - 6y &= -16 \end{aligned}$$

$$\begin{aligned} y &= 0 \\ x &= 4 \end{aligned}$$

$$\begin{aligned} \boxed{7} \quad x - y &= 3 \\ 7x - y &= -3 \end{aligned}$$

$$\begin{aligned} x &= -1 \\ y &= -4 \end{aligned}$$

$$\begin{aligned} \boxed{8} \quad y &= -5 \\ 5x + 4y &= -20 \end{aligned}$$

$$\begin{aligned} y &= -5 \\ x &= 0 \end{aligned}$$