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Module 10 Solving Systems of Linear Equations
and Inequalities

Lesson 3 Solving Systems of Linear Equations
by Substitution



**guided
practice**

Set 1

1. Solve by substitution:

$$\begin{cases} y = 4 \\ x + y = 6 \end{cases}$$

(2, 4)

2. Solve by substitution:

$$\begin{cases} y = -2 \\ 4x + y = 0 \end{cases}$$

 $\left(\frac{1}{2}, -2\right)$

3. Solve by substitution:

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

(1, 4)

4. Solve by substitution:

$$\begin{cases} 2x - 3y = -5 \\ x = 2y - 3 \end{cases}$$

(-1, 1)**Set 2**

1. Solve by substitution:

$$\begin{cases} 4x - 3y = -1 \\ y - 2x = -3 \end{cases}$$

(5, 7)

2. Solve by substitution:

$$\begin{cases} x - 2y = 0 \\ -2x + 4y = 6 \end{cases}$$

No solution

3. Solve by substitution:

$$\begin{cases} y = 2x - 1 \\ y = 5x - 19 \end{cases}$$

(6, 11)

4. Solve by substitution:

$$\begin{cases} 3x = 4 - y \\ 9x + 3y = 12 \end{cases}$$

An infinite number of solutions

