

The Substitution Method

Date _____ Period _____

Solve each system by substitution.

$$\begin{aligned} 1) \quad & y = 3x + 6 \\ & y = -3x - 12 \\ & \quad \quad \quad (-3, -3) \end{aligned}$$

$$\begin{aligned} 3) \quad & 5x + y = -12 \\ & -2x + 3y = -19 \\ & \quad \quad \quad (-1, -7) \end{aligned}$$

$$\begin{aligned} 5) \quad & -8x + y = 24 \\ & -8x + 5y = -8 \\ & \quad \quad \quad (-4, -8) \end{aligned}$$

$$\begin{aligned} 7) \quad & 4x + y = -15 \\ & -5x + 3y = 6 \\ & \quad \quad \quad (-3, -3) \end{aligned}$$

$$\begin{aligned} 9) \quad & -x - 2y = -5 \\ & -7x + 2y = 13 \\ & \quad \quad \quad (-1, 3) \end{aligned}$$

$$\begin{aligned} 2) \quad & y = -4x + 11 \\ & y = 2x - 1 \\ & \quad \quad \quad (2, 3) \end{aligned}$$

$$\begin{aligned} 4) \quad & 2x - 4y = -18 \\ & x - 4y = -11 \\ & \quad \quad \quad (-7, 1) \end{aligned}$$

$$\begin{aligned} 6) \quad & x - 7y = -1 \\ & -3x + 21y = 3 \\ & \quad \quad \quad \text{Infinite number of solutions} \end{aligned}$$

$$\begin{aligned} 8) \quad & 3x + y = 9 \\ & -6x - y = -21 \\ & \quad \quad \quad (4, -3) \end{aligned}$$

$$\begin{aligned} 10) \quad & -x + 6y = -8 \\ & -3x + 18y = -6 \\ & \quad \quad \quad \text{No solution} \end{aligned}$$