

# Systems of 3

Name \_\_\_\_\_ period \_\_\_\_\_

Solve each system.

$$\begin{aligned} 1) \quad & -x - y - 3z = -9 \\ & z = -3x - 1 \\ & x = 5y - z + 23 \end{aligned}$$

$$\begin{aligned} 2) \quad & a - 2b + c = -6 \\ & a + 5c = -12 \\ & -a + 6b + 4c = 3 \end{aligned}$$

$$\begin{aligned} 3) \quad & -x - 5y + z = 17 \\ & -5x - 5y + 5z = 5 \\ & 2x + 5y - 3z = -10 \end{aligned}$$

$$\begin{aligned} 4) \quad & 4x + 4y + z = 24 \\ & 2x - 4y + z = 0 \\ & 5x - 4y - 5z = 12 \end{aligned}$$

$$\begin{aligned} 5) \quad & -6x - 2y - z = -17 \\ & 5x + y - 6z = 19 \\ & -4x - 6y - 6z = -20 \end{aligned}$$

$$\begin{aligned} 6) \quad & x + 3y = -17 \\ & 3x = -6 \\ & 4x - 3y + 6z = 25 \end{aligned}$$

$$\begin{aligned} 7) \quad & 6r - s + 3t = -9 \\ & 5r + 5s - 5t = 20 \\ & 3r - s + 4t = -5 \end{aligned}$$

$$\begin{aligned} 8) \quad & 3a - 3b + 4c = -23 \\ & a + 2b - 3c = 25 \\ & 4a - b + c = 25 \end{aligned}$$