

## Worksheet 1.4 A

Solve each system by elimination.

$$\begin{aligned} 1) \quad & -x + 3y - 4z = 9 \\ & -4x - 3y + 4z = -14 \\ & x - 3y - 2z = -3 \end{aligned} \quad (1, 2, -1)$$

$$\begin{aligned} 2) \quad & -4x - 3y + 11z = 6 \\ & -5x - 3y - z = -5 \\ & x + 3y - 5z = 3 \end{aligned} \quad (-1, 3, 1)$$

$$\begin{aligned} 3) \quad & 4r + 4s + 3t = -30 \\ & r - 4s - 6t = 4 \\ & -2r - 5s - 2t = 29 \end{aligned} \quad (-4, -5, 2)$$

$$\begin{aligned} 4) \quad & 5r - s + 4t = -7 \\ & -4r - 5s - 6t = 6 \\ & 3r + s + 5t = 3 \end{aligned} \quad (-5, -2, 4)$$

$$\begin{aligned} 5) \quad & z = -3x - 4y + 14 \\ & 2y = -2 \\ & -5y - 4z = 5 \end{aligned} \quad (6, -1, 0)$$

$$\begin{aligned} 6) \quad & s = 2r + t - 5 \\ & -7s - 4t = 7 \\ & 2r - s + t = -3 \end{aligned} \quad \emptyset$$