

Solving Systems of Three Equations w/ Elimination

Solve each system by elimination.

$$\begin{aligned} 1) \quad & -x - 5y - 5z = 2 \\ & 4x - 5y + 4z = 19 \\ & x + 5y - z = -20 \end{aligned}$$

$$\begin{aligned} 2) \quad & -4x - 5y - z = 18 \\ & -2x - 5y - 2z = 12 \\ & -2x + 5y + 2z = 4 \end{aligned}$$

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

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

$$\begin{aligned} 5) \quad & 4r - 4s + 4t = -4 \\ & 4r + s - 2t = 5 \\ & -3r - 3s - 4t = -16 \end{aligned}$$

$$\begin{aligned} 6) \quad & x - 6y + 4z = -12 \\ & x + y - 4z = 12 \\ & 2x + 2y + 5z = -15 \end{aligned}$$

$$\begin{aligned} 7) \quad & x - y - 2z = -6 \\ & 3x + 2y = -25 \\ & -4x + y - z = 12 \end{aligned}$$

$$\begin{aligned} 8) \quad & 5a + 5b + 5c = -20 \\ & 4a + 3b + 3c = -6 \\ & -4a + 3b + 3c = 9 \end{aligned}$$