

Work Sample #1

Solve each system by elimination.

$$\begin{aligned} 1) \quad & -r + s + 2t = -2 \\ & 2r + 2s - 5t = 16 \\ & 2r + s - 3t = 6 \end{aligned}$$

$$\begin{aligned} 2) \quad & 3x - 3y - 4z = -19 \\ & x - 2y - z = -6 \\ & 3x - y - 5z = -20 \end{aligned}$$

$$\begin{aligned} 3) \quad & -2r + 3s + 3t = 17 \\ & r - 5s + 5t = 17 \\ & -3r + s - 4t = -24 \end{aligned}$$

$$\begin{aligned} 4) \quad & 3a - 4b - 5c = -14 \\ & a + 3b + 4c = 18 \\ & 5a + 5b - 2c = 2 \end{aligned}$$

Solve each system by substitution.

$$\begin{aligned} 5) \quad & -2a - 5b - 4c = 9 \\ & a - 5b - 4c = 24 \\ & 2a + 4b - 4c = 2 \end{aligned}$$

$$\begin{aligned} 6) \quad & -5r - s + 3t = -1 \\ & 4r - 3s + 4t = 29 \\ & -4r - 6s + 4t = 2 \end{aligned}$$

$$\begin{aligned} 7) \quad & x - 3y + 4z = 7 \\ & 5x + y + z = 13 \\ & -x - 2y + 4z = 4 \end{aligned}$$

$$\begin{aligned} 8) \quad & -5x - y - z = 23 \\ & 5x + 6y - 5z = 28 \\ & -3x + 5y + 4z = 3 \end{aligned}$$

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