

$$5. \begin{cases} \text{2x - y + z = -4} \\ \text{3x + y - 2z = 0} \\ \text{3x - y = -4} \end{cases}$$

$(-1, 1, -1)$

$$\begin{array}{r} 1+2 \\ 2x - y + z = -4 \\ 3x + y - 2z = 0 \\ \hline 5x - z = -4 \end{array}$$

$$\begin{array}{r} 2+3 \\ 3x + y - 2z = 0 \\ 3x - y + 0z = -4 \\ \hline 6x - 2z = -4 \end{array}$$

$$\begin{array}{r} (5x - z = -4) \cdot 2 \\ 6x - 2z = -4 \\ -10x + 2z = 8 \\ \hline 6x - 2z = -4 \\ \hline -4x = 4 \quad x = -1 \end{array}$$

$$\begin{array}{r} 5(-1) - z = -4 \\ -5 - z = -4 \\ -z = 1 \\ z = -1 \end{array}$$

$$\begin{array}{r} 2(-1) - y + (-1) = -4 \\ -2 - y - 1 = -4 \\ -3 - y = -4 \\ -y = -1 \\ y = 1 \end{array}$$