$$\begin{cases} 2x + 3y - 4z = 1 & (1) \\ 3x - y - 2z = 4 & (2) \\ 4x - 7y - 6z = -7 & (3) \end{cases}$$

Elimination de y :

$$\begin{array}{lll} (1) & 2x + 3y - 4z = 1 & \\ 3 \times (2) & 9x - 3y - 6z = 12 & \\ \hline \Sigma & 11x \quad / \quad -10z = 13 & (4) \end{array}$$

$$\begin{array}{lll} (3) & 4x - 7y - 6z = -7 & \\ -7 \times (2) & -21x + 7y + 14z = -28 & \\ \hline \Sigma & -17x \quad / \quad +8z = -35 & (5) \end{array}$$

Élimination de z :

$$\begin{array}{lll} 4 \times (4) : & 44x - 40z = 52 & \\ 5 \times (5) : & -85x + 40z = -175 & \\ \hline \Sigma & -41x = -123 & (6) \end{array}$$

de (6) $x = 3$

de (4) $11 \cdot 3 - 10z = 13$, $z = 2$

de (1) $2 \cdot 3 - 4 \cdot 2 = 1$, $y = 1$