

d)

$$\begin{cases} 4x - 3y + z = 2 \\ -2x - y + 2z = 2 \\ -x + 2y + 4z = -9 \end{cases}$$

$$\begin{array}{r} 4x - 3y + z = 2 \\ 2 \times -2x - y + 2z = 2 \\ \hline -5y - 3z = 6 \end{array} +$$

$$\begin{array}{r} 4x - 3y + z = 2 \\ 4 \times -2x - y + 2z = 2 \\ \hline -5y - 3z = 6 \end{array} +$$

$$\begin{array}{r} 5y + 17z = -34 \\ -5y - 3z = 6 \\ \hline 14z = -28 \end{array} +$$

$$\begin{array}{r} -5y + 6 = 6 \\ -5y = 0 \\ 4x + 0 + 2 = 2 \\ 4x = 4 \end{array}$$

$$z = -2$$

$$y = 0$$

$$x = 4$$