

$$3x - 2y + 5z = 7$$

$$7x + 4y - 8z = 3 \rightarrow$$

$$5x - 3y - 4z = -12$$

Линейна - некінг.
y0-кое н0Org. - некінг.

$$\left| \begin{array}{ccc|c} 3 & -2 & +5 & 7 \\ 7 & 4 & -8 & 3 \\ 5 & -3 & -4 & -12 \end{array} \right| \xrightarrow{-\frac{3}{5}}$$

$$\left| \begin{array}{ccc|c} 3 & -2 & 5 & 7 \\ 7 & 4 & -8 & 3 \\ 5 & -3 & -4 & -12 \end{array} \right| \xrightarrow{-}$$

$$\left| \begin{array}{ccc|c} 7 & 4 & -8 & 3 \\ 0 & -\frac{4}{7} & \frac{12}{7} & -\frac{99}{7} \\ 0 & -\frac{1}{5} & \frac{37}{5} & \frac{71}{5} \end{array} \right| \xrightarrow{20s}$$

$$\left| \begin{array}{ccc|c} 7 & 4 & -8 & 3 \\ 0 & -\frac{4}{7} & \frac{12}{7} & -\frac{99}{7} \\ 0 & 0 & \frac{301}{41} & \frac{602}{41} \end{array} \right| \xrightarrow{-}$$



$$\left| \begin{array}{ccc|c} 1 & \frac{4}{7} & -\frac{9}{7} & 3 \\ 0 & 1 & -\frac{12}{41} & \frac{3}{41} \\ 0 & 0 & 1 & 2 \end{array} \right| \xrightarrow{-}$$



$$Z = 2$$

$$y = \frac{99}{41} - \left(-\frac{12}{41} \right) \cdot 2 = 3$$

$$x = \frac{3}{7} - \frac{4}{7} \cdot 3 - \left(-\frac{8}{7} \right) \cdot 2 = 1$$