

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

$$\begin{pmatrix} 3 & 4 & -1 & 5 \\ 1 & 2 & -1 & 2 \\ 2 & 3 & -2 & 3 \end{pmatrix}$$

Matrice augmentée
du système

$$\begin{pmatrix} 1 & 2 & -1 & 2 \\ 2 & 3 & -2 & 3 \\ 3 & 4 & -1 & 5 \end{pmatrix}$$

$$L_2 \leftarrow L_2 - 2L_1$$

$$L_3 \leftarrow L_3 - 3L_1$$

$$L_2 \leftarrow (-1) \cdot L_2$$

$$\begin{pmatrix} 1 & 2 & -1 & 2 \\ 0 & -1 & 0 & -1 \\ 0 & -2 & 2 & -1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 & -1 & 2 \\ 0 & 1 & 0 & 1 \\ 0 & -2 & 2 & -1 \end{pmatrix}$$

$$L_3 \leftarrow L_3 + 2L_2$$

$$\begin{pmatrix} 1 & 2 & -1 & 2 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 2 & 1 \end{pmatrix}$$

$$x + 2y - z = 2$$

$$y = 1$$

$$2z = 1 \mid z = \frac{1}{2}$$

$$\begin{cases} x = -2 + \frac{1}{2} + 2 \\ y = 1 \\ z = \frac{1}{2} \end{cases}$$

$$\begin{cases} x = \frac{1}{2} \\ y = 1 \\ z = \frac{1}{2} \end{cases}$$

$$S^1 = \{(0.5, 1, 0.5)\}$$

$$4,75 = \frac{x}{43} \cdot 5 + 1$$