2.5.21

pour éliminer y

0) (1) $2x + y - z = 1$ | 2
(2) $x + 2y + z = 8$ | −1 | 1
(3) $3x - y + 2z = 7$ | | 2

$$\begin{array}{r} 4x + 2y - 2z = 2 \\ -x - 2y - z = -8 \\ \hline 3x \quad -3z = -6 \end{array} \quad 1:3$$

$$\begin{array}{r} x + 2y + z = 8 \\ 6x - 2y + 4z = 14 \\ \hline 7x \quad +5z = 22 \end{array} \quad (5)$$

(4) $x - z = -2$

$$\Rightarrow \begin{cases} x - z = -2 \\ 7x + 5z = 22 \end{cases} \begin{array}{l} \cdot 5 \\ 1 \end{array} \Rightarrow \begin{array}{r} 5x - 5z = -10 \\ 7x + 5z = 22 \\ \hline 12x \quad = 12 \end{array}$$

$$x = 1$$

(4) $\Rightarrow 1 - z = -2$

$$3 = z$$

(1) $\Rightarrow 2 \cdot 1 + y - 3 = 1$

$$y = 2$$

$$\Rightarrow S = \{(1; 2; 3)\}$$

t)

$$\begin{cases} x+y+z=9 \\ x+2y+3z=14 \\ 3x+2y+z=22 \end{cases} \quad \begin{vmatrix} -3 \\ 1 \\ \end{vmatrix} \quad \begin{vmatrix} -1 \\ \\ 1 \end{vmatrix}$$

$$+ \quad \begin{array}{r} -3x-3y-3z=-27 \\ x+2y+3z=14 \\ \hline -2x-y \quad\quad =-13 \end{array}$$

$$\begin{array}{r} -x-y-z=-9 \\ 3x+2y+z=22 \\ \hline 2x+y \quad\quad =13 \end{array}$$

$$+ \begin{cases} -2x-y=-13 \\ 2x+y=13 \end{cases} \quad \begin{vmatrix} 1 \\ 1 \end{vmatrix}$$

$$0=0 \quad \checkmark$$

indéterminé