Übungen in AlgGeo ◇ Exercices en AlgGéo ◇ T. B1 ◇ I / 16

Repetition: • *Répétition:*

Probl. 1 $\Phi:\ \vec{r} = \begin{pmatrix} -2 \\ 4 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix} + \mu \begin{pmatrix} -3 \\ 3 \\ 5 \end{pmatrix}, \qquad A\,x + B\,y + C\,z = 1 \rightsquigarrow\ A, B, C = ?$

Probl. 2 $2\,x - 4\,y + 3\,z - 8 = 0$

(a) $y_1 = 0,\ z_1 = 0 \rightsquigarrow\ x_1 = ? \rightsquigarrow\ P_1$
(b) $x_2 = 0,\ z_2 = 0 \rightsquigarrow\ y_2 = ? \rightsquigarrow\ P_2$
(c) $x_3 = 0,\ y_3 = 0 \rightsquigarrow\ z_3 = ? \rightsquigarrow\ P_3$

$$\Phi:\ \vec{r} = \begin{pmatrix} x_1 \\ y_1 \\ z_1 \end{pmatrix} + \lambda\, \overrightarrow{P_1P_2} + \mu\, \overrightarrow{P_1P_3} = ?$$

Probl. 3 $\Phi_1:\ 2\,x - 4\,y + 3\,z - 8 = 0 \qquad \Phi_2:\ 2\,x + 5\,y - 4\,z + 4 = 0 \rightsquigarrow\ \Phi_1 \cap \Phi_2 \cap (x, y)_{z=0} = ?$