

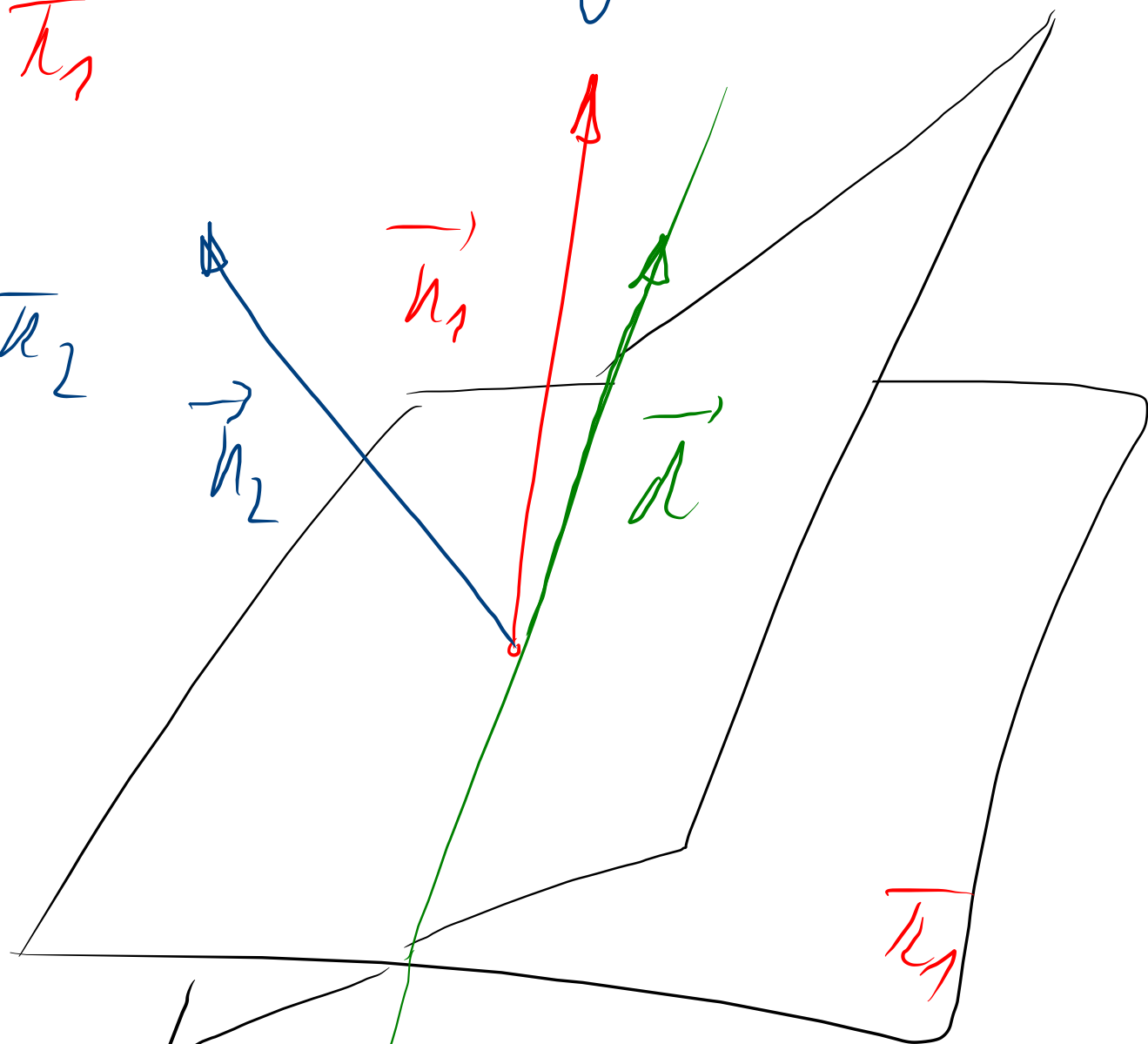
$$\boxed{x=0}$$

$$y - z = 5$$
$$-y + 2z = 10$$

$$z = 15$$

$$y = 20$$

$$d \left\{ \begin{array}{l} x + y - z = 5 \quad \overline{n}_1 \\ 2x - y + 2z = 10 \quad \overline{n}_2 \end{array} \right.$$



$\vec{n}_1 \times \vec{n}_2$  et  $\vec{d}$  colinéaires

$$\begin{vmatrix} i & j & k \\ 1 & 1 & -1 \\ 2 & -1 & 2 \end{vmatrix}$$

$$\longrightarrow \vec{d} = \begin{pmatrix} 1 \\ -4 \\ -3 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 0 \\ 20 \\ 15 \end{pmatrix} + k \begin{pmatrix} 1 \\ -4 \\ -3 \end{pmatrix}$$

$$\begin{cases} X = -y + z + 5 & L_1 \\ X = \frac{1}{2}y - z + 5 & L_2 \end{cases}$$

$$\begin{cases} X = -\frac{1}{3}z + 5 \\ y = \frac{4}{3}z \\ z = 1z \end{cases}$$

$$L_2 - L_1:$$

$$0 = \frac{3}{2}y - 2z$$

$$y = \frac{4}{3}z$$

$$\begin{pmatrix} X \\ y \\ z \end{pmatrix} = \begin{pmatrix} 5 \\ 0 \\ 0 \end{pmatrix} + k \begin{pmatrix} -1 \\ 4 \\ 3 \end{pmatrix}$$