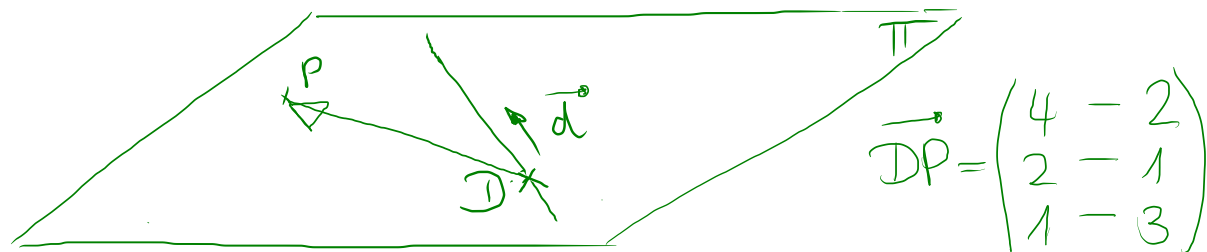


$$c) \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 5 \\ 2 \\ -2 \end{pmatrix} + k \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} + n \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

e) qui passe par le point $P(4; 2; 1)$ et qui contient la droite d'équation $(d) : \begin{cases} x = 2+k \\ y = 1-3k \\ z = 3+k \end{cases}$



$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 4 \\ 2 \\ 1 \end{pmatrix} + k \begin{pmatrix} 1 \\ -3 \\ 1 \end{pmatrix} + n \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$$

5.6 e)
$$\begin{cases} x = 4+k+2n \\ y = 2-3k+n \\ z = 1+k-2n \end{cases} \begin{array}{l} | 1 \\ | 2 \\ | 1 \end{array} \begin{array}{l} \\ \cdot 2 \\ \cdot 1 \end{array}$$

$$\Rightarrow \begin{cases} x+z = 5+2k & \cdot 5 \\ 2y+z = 5-5k & \cdot 2 \end{cases}$$

$$\Rightarrow 5x + 4y + 7z = 35$$

$$\Rightarrow \Pi : 5x + 4y + 7z - 35 = 0$$