EXERCICE 6 : Find the value of param. I for which the straight lines (de) $\frac{x-1}{3} = \frac{y+2}{-2} = \frac{z}{1} (de) \frac{x+1}{4} = \frac{y-3}{1} = \frac{z}{1}$ are coplanas, Find the coordinates of their intersection point

A ((1,-2,0) & d); A((x1,71,21) A2(-1,3,0) & d2 jA2(x2, 72,72)

di, de coplanara (=) | xz-xi Pr Pe 22-21 =0 C=>

J, (pi, gente) = J, (3,-2,0). d2 (p2, 22, 92) = > d2 (4, 1, 1)

(=>11/=22(=>) = 2

, Lenda ER

 $d_{1} \prod d_{2} = \frac{2}{3} H \frac{1}{5} \Rightarrow d_{1} \prod d_{2} (=) \frac{3}{2} \frac{2+3}{1} \frac{1}{1} = -2+4 \frac{1}{2} 2$ $\begin{pmatrix} -2-2 \lambda_{1} = 3+\lambda_{2} \\ \lambda_{1} = 2 \lambda_{2} \end{pmatrix} \begin{pmatrix} 3\lambda_{1} - 4\lambda_{2} = -2 \\ -2\lambda_{1} - \lambda_{2} = 5 \\ \lambda_{1} = 2 \lambda_{2} \end{pmatrix}$

 $-2\lambda (-\lambda_2 = 5)$ $\lambda (-2\lambda_2 = 5)$

 $M(x_{H}, Y_{H}, Z_{H})$) $\begin{cases} x_{H} = k - 6 \\ y_{K} = -2 + 4 = 0 \end{cases}$ $\begin{cases} x_{K} = -5 \\ z_{K} = -2 \end{cases}$ $\begin{cases} x_{K} = -5 \\ z_{K} = -2 \end{cases}$