## Generatoan réclibini

1). Formati euratiile generatoare la votilinii ale hipentocloidului en o paura 
$$\frac{\chi^2}{2} + \frac{\chi^2}{2} - \frac{z^2}{2} = 1$$

$$\frac{x^2}{4} + \frac{x^2}{9} - \frac{z^2}{16} = 1$$

paralele cu planul

TI: 6x+4x+32-17-0.

Solution 
$$\frac{\chi_{4}^{4} + \frac{1}{4}\chi_{5}^{2} - \frac{2^{2}}{16} = 1}{(\frac{\chi_{4}^{4} + \frac{1}{4}\chi_{5}^{2} - \frac{1}{4}\chi_{5}^{2})} = (1 + \frac{1}{3})(1 - \frac{1}{3})}$$

$$\left(\begin{array}{c} D_{\lambda} \right); \quad \left(\begin{array}{c} 2 + \frac{7}{4} = \lambda \left(1 + \frac{1}{3}\right) & |\cdot| 12 \\ \frac{2}{2} - \frac{7}{4} = \frac{1}{2} \left(1 - \frac{1}{3}\right) & |\cdot| 12 \lambda \end{array}\right)$$

$$(D_{\mu}): \begin{cases} \frac{3}{2} + \frac{2}{3} = \mu(1 - \frac{7}{3}) \\ \frac{7}{2} - \frac{2}{3} = \frac{1}{\mu}(1 + \frac{7}{3}) \end{cases}$$
 | 1.12 \( \lambda\)

Vectoral normal al planului est m (A,Bc) =  $= \overline{\mathcal{M}}(6,4,3)$ 

$$(D_{\chi}): \begin{cases} 6\chi - 4\lambda y + 3z - 12\lambda = 0 \\ 6\chi \chi + 4y - 3\lambda z - 12 = 0 \end{cases} (x)$$

Pr 2x 
$$h_{x}$$

6 -4x 3

6x 4 -3x

$$P_{x} = \begin{vmatrix} -4x & 3 \\ 4 & -3x \end{vmatrix} = 12(\chi^{2} - 1)$$

$$2_{x} = -\begin{vmatrix} 6 & 3 \\ 6x & -4x \end{vmatrix} = 24(\chi^{2} + 1)$$

$$2_{x} = \begin{vmatrix} 6 & -4x \\ 6x & 4 \end{vmatrix} = 24(\chi^{2} + 1)$$

Alt vector alixed  $D_{x}^{1}(\chi^{2} - 1)$ ,  $3x$ ,  $2(\chi^{2} + 1)$ 

$$D_{x} \parallel T = -D_{x}^{1} \perp M = 0 = 0$$

(c)  $G(\chi^{1} - 1) + 12\lambda + G(\chi^{1} + 1) = 0 = 0$ 

$$\chi^{1} = -1$$

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$$\chi^{2} = -1 + \frac{1}{3} \qquad | 12$$

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Capul  $\lambda = 0$  in sixtemul (\*) |6x + 3t = 0| |4y - 12 = 0| |4y - 3t = 0|

Analog Duis.