Siminar WIP - 976

$$\xi: ((\eta, \eta) = 0), \quad \{\in ||2[\eta, \eta] = \} \text{ Conies}$$
 $J: ((\eta, \eta, \chi) = 0), \quad \{\in ||2[\eta, \eta, \chi] = \} \text{ 2undrics}$

$$\frac{\mathcal{E}(lipsoid)}{2} = \frac{\mathcal{H}^2}{a^2} + \frac{\mathcal{Y}^2}{5^2} + \frac{\mathcal{Z}^2}{C^2} = 1$$



Hyphisoloid of on sheet

$$\frac{4^{2}+5^{2}}{4^{2}+5^{2}}=-1$$

$$-\frac{4^{2}}{4^{2}}-\frac{y^{2}}{5^{2}}+\frac{y^{2}}{c^{2}}=1$$

· Elliptic parabolloid $\frac{3}{2} + \frac{5}{2} = 22$, $\frac{7}{2}$, $\frac{7}{2}$

· Hyperbolic parabolloid Rectilinear generations - only exist on

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hyperboloides of one

sheet and hyperbolic

porabollaids

Ty (
$$70,70,20$$
): $f(10,9,2)=D$

Ty ($70,70,20$): $f(10,90,20)$: $(10-70)$ $f(10,90,20)$: $(10-70)$ $f(10,90,20)$: $(10-70)$ $f(10,90,20)$: $f(10,90,20)$:

Times to the ellipsoid at the intersection paints

$$\begin{cases} x = 2t+4 \\ 5 = -3t-6 \\ 2 = -2t-2 \end{cases}$$

$$\begin{cases} x^2 + \frac{y^2}{16} + \frac{z^3}{2} = 1 \\ x = 2t+4 \\ 5 = -3t-6 \\ 2 = -2t-2 \end{cases}$$

$$= 7 \left(\frac{2t+4}{3} + \frac{(-3t-6)^2}{3} + (-2t-2)^2 - 4 = 0 \right)$$

$$= 7 \left(\frac{t+2}{3} + \frac{t$$

=7
$$f_1 = -2$$
 and $f_2 = -1$
=7 $f(2,-3,0)$ and $g(0,0,2)$ are

the intersation points of g and $f(0,0,2)$ are

 $f(x_1,y_1,z) = \frac{x^2}{16} + \frac{y^2}{16} + \frac{z^2}{16} - 1$

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=9 $f(x_1,y_1,z_1) = \frac{x^2}{16} + \frac{y^2}{16} + \frac{y^2}{16}$

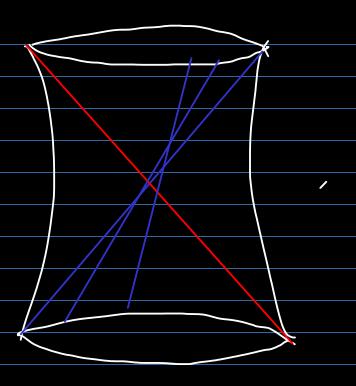
$$N_{\mathcal{E}}(2,-3,0): \begin{cases} \frac{2f-2}{4} = \frac{y+3}{1} \\ \frac{1}{4} = 0 \end{cases}$$

Rectilina generatrius

$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} - \frac{1}{2} = 1$$

$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 1$$

$$\frac{1}{2} + \frac{1}{2} = 1$$



$$\frac{2}{p} = 2 + \frac{1}{2}$$

$$\int_{10.2.}^{10.2} \int_{10.2}^{10.2} \int_{10.2.}^{10.2} \int_{10.2.}^{10.2.} \int_{10.2.$$

10.3. Find the roctilinar generatrices of the hypersoloid of on sheet (3/1): $\frac{2+5}{36}$ + $\frac{5}{9}$ - $\frac{25}{4}$ - 1 which are parallel to the plane (T) ++y+=0 (y_1) $\frac{x^2}{36} - \frac{z^2}{4} = 1 - \frac{y^2}{9}$ $\left(\frac{x}{6} - \frac{2}{2}\right) \cdot \left(\frac{x}{4} + \frac{2}{2}\right) =$ $-\left(1-\frac{3}{3}\right)\cdot\left(1+\frac{3}{3}\right)$ $\frac{1}{4}: \left\{ \frac{2}{6} - \frac{2}{5} - \frac{1}{2} - \frac{9}{2} \right\}$ $\left(\lambda \cdot \left(\frac{7}{6} + \frac{2}{5}\right) - 1 + \frac{5}{3}\right)$ $\frac{1}{5} = \frac{1}{5} = \frac{1}$

$$\vec{J}_{\lambda} = \left(\frac{1}{6}, -\frac{\lambda}{3}, -\frac{1}{2} \right) \times \left(\frac{\lambda}{6}, -\frac{1}{3}, \frac{\lambda}{2} \right)$$

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