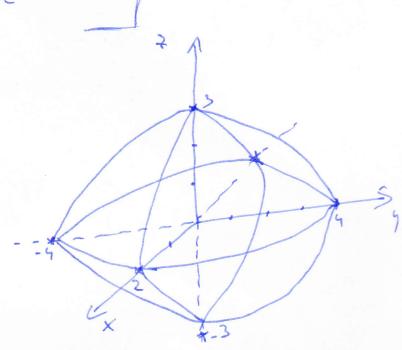
1) Sketch the preph of the ellipsee'd \(\frac{\chi^2}{4} + \frac{\chi^2}{9} = 2

1 x2 + x2 + 22 = L

a=2 6=4 C=3



(1) S.t. the lives

d1: { 4: 2+ t and

(7:5+2t

dz: { x: 3+4 7: 2-4 7: 5+10+

are completely conferenced into hyperbolic pura bolaid? = x? y?

 $45+21 = (3+t)^{2}(4+4+2)$ 5+2t = 2++5(1) 5+2t = 2++5(1)

di € P 5+10+ = +2+6+19-12+4+-1 5+10+ = +2+6+19-+2+4+-1

3 toud the intertretion paints of d: $\frac{x}{3} = \frac{4}{3} = \frac{2}{3}$ and the ellipsen'd S: x3+ 43 =1 t + 4 + 3+2 - L 3+ = L => + = + 13 t = \frac{\sqrt{3}}{3} =) \times = \frac{\sqrt{3}}{3} =) A (\(\frac{\sqrt{3}}{3}, \frac{2\sqrt{3}}{3}, \sqrt{3}) 4: 303 t-- - \frac{1}{3} =) B(-\frac{1}{3}, -\frac{2\sigma}{3}, -\frac{2\sigma}{3}) dn S= 5 A,B9 The route tion of this ?=0 arcelled the axis oy I eg af a surface generated by the curry Ein its ratation around a line of: 6. \\ \frac{\frac{1}{1}(\lambda, 4, 7) = 0}{\frac{1}{2}(\lambda, 4, 2) = 0} d: X-xo = 4-40 = 7-7 -> (P,S,A) -> vd

Ctim: {(x-x012+C4-4013+C5-4013= 4 (PX + 2 4 + 27=1 { fi (y, y, 7 1= 0) -> P(1,M)=0 (tz(x, 7, 7) = 6 -) replace 1, m =) ez of bur lacq 8 dim { x + 4 2 + 5 = 7 x2+12 = 1 =) x2 = 1 762 1 x2+ x2+ 22 = 1 3) 1-12 - le? -1=0 X371375-150 xx+ 52 - 1=0 $\left[\frac{\alpha^2}{\alpha^2} - \frac{y^2}{S^2} + \frac{2^2}{\alpha^2} - 1 = 0\right]$

reader to an fur force former afeat E tend er of readlestion fur face fe by the currie G. Sx2-247+ 22-5=6 1 x + 7 +3 =0 in its redation around d: x= y= x Vd (M/21) X 5 + 4 5 + 55 Y 0(0,0,0) ed 8. \\ x + 4 + + = 1 メイイナチョル 342 - 1-5) 3-4 = -M =) Y=3+h 3(3+/4)2= 1-5 3(3+M12-d+5=0) 3(3+X+4+5)2-X2-12-72+5=0 6. Finel the eg of the eglin drical turface horizing the certale

6. \(\) \(and the generation parallel to d: x=y=> The director correct 6: \fi(x, y, t) = 0
\[\frac{1}{7}(x, y, t) = 0 the generation II to d: [II = 0 din { Tin= 1 d +, h 71=0 =) ((+, h) 72=0 1

din: 1x=4=1 d. \\ \times + y^2 - a^2 = 6 M- 4= 1 => 4= h- 1 (h') (h- 112-2=0) (x-2) + (x-7-x+y) - a=0 (x-2)2 + (9-712 -a =0 (4) Find eg af comical sensace mister

Neettex V(0,-a, 0) and direct as centre

E: \int x^2 + 1^2 + z^2 = 4

\tag{7+7=2} director owner 6: \frac{\frac{1}{1}(\frac{1}{2},\frac{1}{2})=0}{\frac{1}{2}} V(Xo, Yo, to) recreex d, m: { X-x0 = d(2-20) M- Y0 = m(2-20) d1.4 71=0 > ((1,11)=6 71=0 =1 realerce 1, y =1eq

X-0= 4(5-0) X = 13 =) 1 = = 4+a=/e2 => 4=/e2-a 5-5=0-5y(- $\frac{4+2-2}{4-\frac{2}{2}}$ $\frac{4-\frac{2}{2}}{4-\frac{2}{2}}$ $\frac{4-\frac{2}{2}}{4-\frac{2}{2}}$ $\frac{2\mu+2-2-\alpha}{\mu+1}$ $\frac{2+\alpha}{2}$ $\frac{2\mu-\alpha}{\mu+1}$ 4+++ -2 ta x= 1 2 +a 1= = ; 1: 4+9 X2+ 42+ 52= 4 2+9 1+9+1

D'Find eg af the comical system furface with vertex V(2,2,2) and director currie B: 1 42-4x+1=0 5+120 d1, m: { x-2 = 1 (x-2) 12-4 (t-5) (x-2= 1(8-2) 12-2 = H (-5-51) 7-2 = -3 pc =)) 1/2-1×+1=0 7+1=0 (x = 34 +5 9 m² - 12 m + 12 t - 8 + 1 = 0 4 = 3-5 > h= 3-5 $\left(3 \cdot \left(\frac{5-5}{4-5}\right) - 15 \cdot \frac{5-5}{4-5} + 15 \cdot \frac{5-5}{2} - 3 = 0\right)$ 9 Find the surface fewer fed by a line considered veluide interfects 07 and the line d. \ \ \times + 24 - 3 = 0 and stays 11 to xo y Concerdad purpose rubese pensentry, in for seals d: \(\frac{1}{4} = 0 \) and \(\frac{1}{5} : \) \(\frac{7}{4} (\text{X}; \gamma; \frac{1}{4}) = 0 \)

and stays 11 to \(\text{i} = 0 \)

diff :\(\frac{1}{4} = \text{i} = 0 \)

\(\frac{1}{4} = \text{i} = 0 \)

\(\frac{1}{4} = 0 \) $di \int_{Y=0}^{X=0} x_{0}y: \xi=0$ $di \int_{Y=0}^{X=0} x_{0}y: \xi=0$ $f=1 \Rightarrow x=1$ $f=1 \Rightarrow x=1$ f=