Elipsai x1 + 11 = 1; b = Var-c2; E = = 1 - 12; Nove pocale: { tous = a - ex; tangento pund to: a2 motomala: a2 yex - b2 xy - (a2-b2) xo y = 0; tangendo pantó b: y = kxt Vaz x2 + b2; panto tang K1,2 = ->141 + V2 x2 + 02 y12 - 02 b2

daer H1 E X = ± a => k = ± 41-b2 Nipubola: x2 - b2 = 1; b = Vc2-a2; e = a = V1 + b2 >1; hase pecal: 12 - a - ex tangenta: xx0 - y 40 = 1, meternala: azyox + bzx0 y - (02+62) x0 y0 = 0; panto tangento: y= kx e vazkz-ez, x2 > 62! panta, tangento: b1,2 =  $\frac{y_1 \times 1 \pm \sqrt{a^2 y_1^2 - b^2 x_1^2 + a^2 b^2}}{x_1^2 - a^2}$  does the x = ta: k = ±  $\frac{y_1^2 + b^2}{x_1^2 + b^2}$  Parabola:  $y^2 = 2px$ ; tangento 450 = plan. targento prim panta ki: y=kx+ & (k+0); panta targento print extrem: y-y1=k,(x-r1), undi k:2x1k2-2y1k+p=0/car y-y1=E Unadia: word. verifice  $a_{11} \times \frac{1}{2} + 2a_{12} \times \frac{1}{2} + 2a_{13} \times \frac{1}{2} + 2a_{13} \times \frac{1}{2} + 2a_{13} \times \frac{1}{2} + a_{14} \times \frac{1}{2} + a_{$ y=0 } san  $\left\{\frac{a^2}{c^2h^2/b^2} - \frac{x^2}{a^2a^2/b^2} = 1, y=h\right\}$ ; interaction on y=0 }  $\left\{\frac{y}{b} + \frac{x}{c} = 0, x=0\right\}$  can  $\left\{\frac{y^2}{b^2h^2/c^2} - \frac{x^2}{a^2a^2/b^2} - 1, x=h\right\}$ plan tangent la con:  $\frac{xx_0}{a^2} + \frac{yy_2}{b^2} - \frac{22}{c^2} = 0$ ; con di hotatie:  $\frac{x^2 + y^2}{a^2} - \frac{2}{c^2} = 0$  Kipothead cu e psinate  $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{2^2}{c^2} = 1$  $\bigcap_{x \in X_{1}} x = \{ x$  $\begin{cases} x = \theta_{0} \quad \frac{\alpha^{2}}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(b\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| > |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(b\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| > |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(b\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| > |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| > |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} \\ |\theta_{0}| = |\alpha_{0}| \cdot \frac{1}{(c\sqrt{\frac{1}{6}} - 1)^{2}} - \frac{1}{($ hip de rotate:  $\frac{x^2}{a^2} + \frac{h^2}{a^2} - \frac{2^2}{c^2} = 1$ ; plan tangent to hip cu 2 plane.  $\frac{xx_0}{a^2} + \frac{hy_0}{b^2} - \frac{2x_0}{c^2} = -1$  Parabatoid sliptic  $\frac{x^2}{p^2} + \frac{y^2}{y^2} = 23$ :

1) cu  $x \circ y$ ,  $z = b : \{\emptyset, b : co\}$ ,  $\{0, b :$ 1 y = = = 5 11- 67  $\int_{\gamma} \left( \frac{x}{\sqrt{p}} + \frac{y}{\sqrt{q}} \right) = \lambda \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 2p \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \end{cases} \qquad \begin{cases} \sqrt{(x)} + \frac{y}{\sqrt{q}} = 1 \\ \sqrt{(x)} + \frac{y}$ معرف و اما= اما . plans tangential:  $\frac{xx_0}{a^2} + \frac{yy_0}{b^2} = 1$ ; estandius eliptic de hatabie:  $x^2 + y^2 = a^2$ . Cilindra leipertolic  $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ ;  $a = x_0y_1$  == b; x2 - \frac{x^2}{a^2} = 1]; 1 cm 402 \ \frac{y^2}{b^2} = \frac{a^2}{a^2} - 1, x = e^2\_1 = \phi \ |e| < a, \( \text{diapho | 10a | |a| = a}; \( \text{0 pouds de aupt. | 10a | \frac{y^2}{b^2} - 1} \) Gonoratione de suprafete; suprafete climáticos generatoros care se miser ll cu o dreapto disentare + n cu cuales datos. (c)  $\{F(x,y,z)=0 G_{\lambda,\mu}\}$   $\{P_{\lambda}(x,y,z)=\lambda_{\lambda}\}$  dependent: => eccución suphoficia oblimative  $\{G(x,y,z)=0\}$   $\{P_{\lambda}(x,y,z)=0\}$   $\{P_{\lambda}(x,y,z)=0\}$ suprabble conico: generatores + the prim punctual V + 11 cu curlos C. ecuatio supofetri comiu:  $G_{\lambda,\mu} \begin{cases} P_{i}(x,y,\epsilon) = \lambda P_{3}(x,y,\epsilon) \\ P_{i}(x,y,\epsilon) = \mu P_{3}(x,y,\epsilon) \end{cases} \qquad \Upsilon(\lambda,\mu) = \lambda \Upsilon\left(\frac{P_{i}(x,y,\epsilon)}{P_{3}(x,y,\epsilon)}, \frac{P_{i}(x,y,\epsilon)}{P_{3}(x,y,\epsilon)}, \frac{P_{i}(x,y,\epsilon)}{P_{3}(x,y,\epsilon)}\right) \end{cases}$ suprabto anside grossian + n a duapto diretan + 11 a un plan + n a culso C  $(\Delta) \begin{cases} P_{2}(x, y, \epsilon) = 0 \\ P_{2}(x, y, \epsilon) = 0 \end{cases} (\pi) P(x, y, \epsilon) = (A_{2}) \left\{ P_{3}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) \\ P_{2}(x, y, \epsilon) = 0 \end{cases} (\pi) P(x, y, \epsilon) = (A_{2}) \left\{ P_{3}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) \\ P_{3}(x, y, \epsilon) = 0 \end{cases} (\pi) P(x, y, \epsilon) = (A_{3}) \left\{ P_{3}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) \\ P_{3}(x, y, \epsilon) = 0 \end{cases} (\pi) P(x, y, \epsilon) = (A_{3}) \left\{ P_{3}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) \\ P_{3}(x, y, \epsilon) = 0 \end{cases} (\pi) P(x, y, \epsilon) = (A_{3}) \left\{ P_{3}(x, y, \epsilon) = \lambda P_{1}(x, y, \epsilon) \right\} = (A_{3}) \left\{ P_{3}(x, y, \epsilon) = \lambda P_{3}(x, y, \epsilon) \\ P_{3}(x, y, \epsilon) = 0 \end{cases} (\pi) P(x, y, \epsilon) = (A_{3}) \left\{ P_{3}(x, y, \epsilon) = \lambda P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, y, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, y, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3}) P_{3}(x, \epsilon) + (A_{3}) P_{3}(x, \epsilon) \\ P_{3}(x, \epsilon) = (A_{3})$ Explosion on tratation come of xokes in final une drupte ( one of xolotie)  $\frac{x-x_0}{x} = \frac{y-y_0}{x} = \frac{3-20}{x^2-x_0}$   $\frac{(x-x_0)^2 + (y-y_0)^2 + (z-20)^2 = \lambda^2}{x^2-x_0}$ Gx, 1 { 2x + my + ca = ju y ( \(\frac{1}{(x-x\_0)^2+(\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}}\), \(\frac{1}{2}\) + \(\frac{1}{2}\) = 0

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Vectori 2. 2 = 11 2,11 112,11 (02 ($ 2) 2) 11 2,11 = 100 = 101 ( X 2) + BE) ( 2) = y( 2) + B( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - ( 2) - (
 ( a (a, a, a, a, ), B (b, b) ): 2 5 = a, b+ abb+ abb 101 = Variozaj 11ax B 11 = 11 ar 11 x 11 B11 sina
  \overrightarrow{a} \times \overrightarrow{b} = \begin{vmatrix} \overrightarrow{a} & \overrightarrow{j} & \overrightarrow{b} \\ \overrightarrow{a}_1 & \overrightarrow{a}_2 & \overrightarrow{o}_3 \\ \overrightarrow{b}_1 & \overrightarrow{b}_3 & \overrightarrow{b}_3 \end{vmatrix} = \begin{vmatrix} a_1 & a_3 \\ b_2 & b_3 \end{vmatrix} i - \begin{vmatrix} a_1 & a_3 \\ b_1 & b_3 \end{vmatrix} i + \begin{vmatrix} a_1 & a_2 \\ b_1 & b_3 \end{vmatrix} k; predus mix+: (a_1b_1c) = (\overrightarrow{a} \times \overrightarrow{b}) \cdot \overrightarrow{c}
  Drugta in plan No (xo, yo) α)(e, m) - v. director. Ax+By+C=0 (ec.gen) p1 (-B, A) - v. director.
   ) x = xn + e.t. x-x0 = 4-40; (x-x0)(y1-y0)=(y-y0)(x1-x0); 4-y0= m (x-x0); (A,b) - v. marmal
    h-ho=ta; x + y -1=a; d11d2 = A1A1+B1B1=0; d1 Hd2 : A1B1-A1B1=0; d(Ho,A) = 1 Axo+Byo+c)
   whose in spatiu
  לביטס בל ב א- על פסב

\frac{1}{1} = \frac{1}{10} + \frac{1}{10} = \frac{1}{10} + \frac{1}{10} = \frac{1}{10} 
 ( a = 20 + mx
                                                                                                                                                                                                                                                                                 @=mi(A,B,C1) xmi (A,B,C1)
   du 102 €> lile + minm+ mine=0 di 11 de €) 11 = mi = mi
Planul in sportiu II-plan Ho(xo, yo, zo) al(ly m, m) al(le, m, m) vector mecoliniai II al il
  12 ( 4,8,0) - v. marmas
  TI ITZ (=) AIAZ+B, BI + CI(200 TI II TIZES AI - BI - CI
  Drugta si planul : 11: A(x+B)y+C12+D)=0 F2A2x+B2y+C22+D2=0
  x take dupo 1 drapto => hang \begin{pmatrix} A_1 & B_1 & C_1 \\ A_2 & B_2 & C_2 \end{pmatrix} = 0 \cdot 2unt | 1 | \frac{A_1}{A_2} = \frac{B_1}{B_2} = \frac{C_1}{C_2} + \frac{D_1}{D_2} \cdot \infty \mod \cdot \frac{A_1}{A_2} = \frac{B_1}{B_2} = \frac{C_1}{C_2} - \frac{D_1}{D_2}
 · Δ oi Ti Ou um pund comun. Al +Bm+Cm +0 (ec paramp Δ) Δ 11 Ti Al +0 m+cm=0 & Axo+ Byo+czo+ 2+0
  DET: AR +Bm+Cm=0 & AX0+Byo+ 020+10=0
    ( oc plan det de 2 drupte) ( ec det de 1 disaptor : un punet)
     A = \frac{1}{2} |\Delta| \qquad \Delta = \begin{vmatrix} \chi_1 & \chi_1 & 1 \\ \chi_2 & \chi_2 & 1 \\ \chi_3 & \chi_3 & 1 \end{vmatrix}
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