Miharla Andra 26.05. 2026 gr. 214 Lucrare 2 anul I iR Geometrie D'asiti tangentele la elysa 1 x2+5 y2=120 care sunt para le le cu dreapla 4x-2y +15=0 si determinati distanta dintre etc. 4x2+5y2=120 =) 2y = 4x+15=1y= 2x+ 15 d: 4x-2y+1520 - E-lipa -> 4 x2+5y2=120 /. 120 × + y2 = 1 -) torma generala tangentiala: y = K.x+ JK2 a2+62 K=2 a = 30 y L = 2 x tm J 120 + 24 b= 24 J1 = 2 x + /144 27 55x+7 5 5) 5x-2 1+ 75=0 15=5x-T5=1 5x-AT+ T5=0 1/8

- law
$$P(0, 12)$$

-> $d(P, y_2) = \frac{|ax + by + c|}{|a_2 + b_2|} = \frac{|0 - 12 - 12|}{|y + 1|} = \frac{24}{15}$

2) Determinati generatoureli rectilinii ali suprofitei

 $2x^2 - y^2 = 362$ care truc prin jumbul $M(36, 36, 36)$.

 $2x^2 - y^2 = 362$ ($\frac{1}{18} = 1$) $\frac{x^2}{3} - \frac{1}{18} = 22$
 $M(36, 36, 36)$
 $\left(\frac{x}{3} - \frac{y}{312}\right) \left(\frac{x}{3} + \frac{y}{312}\right) = 22.1$
 $\left(\frac{x}{3} - \frac{y}{312}\right) = 2\mu 2$
 $\left(\frac{x}{3} + \frac{y}{312}\right) = 2\mu 2$

Resolvani mitial historium:

$$\frac{\lambda}{\lambda} \left(\frac{x}{3} - \frac{y}{3} \right) = 2\mu \xi$$

$$\frac{\lambda}{\lambda} \left(\frac{12+65}{\lambda} \right) = \lambda$$
2) $\frac{\lambda}{\lambda} \left(\frac{12+65}{\lambda} \right) \left(\frac{x}{3} - \frac{y}{3\sqrt{2}} \right) = 2\mu \xi$

$$\frac{\lambda}{\lambda} \left(\frac{x}{3} - \frac{y}{3\sqrt{2}} \right) = 2\lambda \xi$$

$$\frac{\lambda}{\lambda} \left(\frac{x}{3} - \frac{y}{3\sqrt{2}} \right) + 2\sqrt{2} x - 2\sqrt{2} \xi$$

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$$\frac{\lambda}{\lambda} \left(\frac{x}{3} - \frac{y}{3\sqrt{2}} \right) - 2\sqrt{2} \xi$$

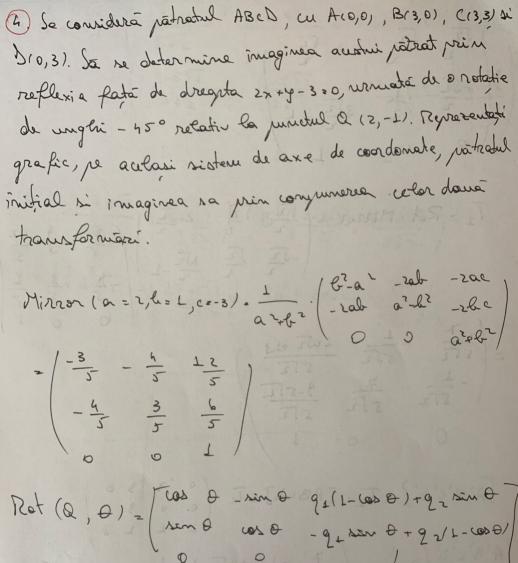
$$\frac{\lambda}{\lambda} \left(\frac{x}{3} - \frac{y}{3\sqrt{2}} \right) = \lambda$$

$$\frac{\lambda}{\lambda} \left(\frac{x}{3} - \frac{y}$$

(3) O dreapta paratila cu planul voy se deplasear à sprijmende - se pe axa DE si pe woul (p) de ec 5x+5d-T=0 Det. ec. syrafeta conside generatar de gh. molila. 02: |x20 |y20 =) x = x y x0 y: 1 2=0 =) = - M (- x 3 L + 3 L + 4 3 KS XY + 4 20 14 - (3/1+2) X -) Dea stim: 7 = 1 1x+2y-1=0 x +4 + 8 55-7=0 2x+2y=1 5 y y + 2 y = 1 リノントトンコニノンソニー マカキン 大二一 マカイン (2×+2)2 + 12-120

• Stime con
$$\lambda = \frac{x}{y}$$
, $\mu = \frac{x}{y}$ information for:

 $1 + x^2 + (2x + 2y)^2 \cdot (\mu^2 - 1) = 0$
 $1 + \frac{x}{y} + (\frac{x}{y})^2 + (\frac{2x + 2y}{y})^2 \cdot (\frac{2^2 - 1}{2}) = 0$
 $1 + \frac{x}{y} + \frac{4x^2 + 4xy + 4y^2}{y^2} \cdot (\frac{2^2 - 1}{2}) = 0$
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 $1 + \frac{x}{y} +$



Rot
$$(Q, \Phi) = \begin{bmatrix} \cos \theta & -\sin \theta & q_{\pm}(1-\cos \theta) + q_{\pm}\sin \theta \\ - q_{\pm}\sin \theta & \cos \theta \\ 0 & 0 \end{bmatrix}$$

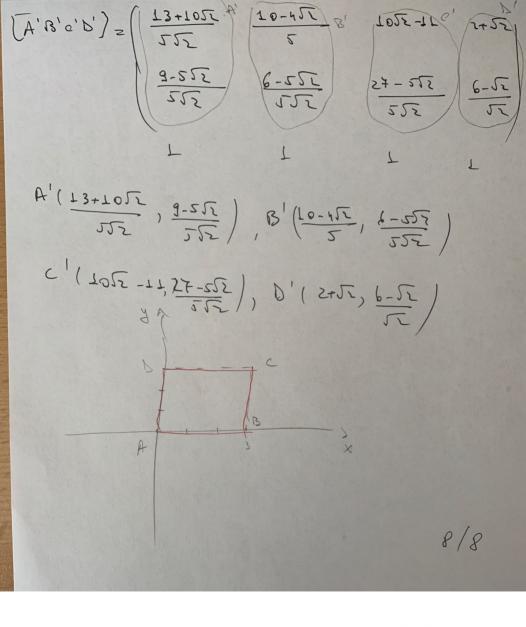
$$Q(2)^{-2}) \stackrel{\sim}{\longrightarrow} 0 = -45^{\circ} \left(\cos -45^{\circ} = \cos 45^{\circ} \sin -45^{\circ} \\ - \sin 45^{\circ} \right)$$

Rot $(2, -1, -45^{\circ}) = \begin{bmatrix} \frac{7}{2} & \frac{7}{2} & \frac{7}{2} \\ -\frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{bmatrix} + \begin{bmatrix} \frac{7}{2} & \frac{7}{2} \\ -\frac{7}{2} & \frac{7}{2} & \frac{7}{2} \end{bmatrix}$

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Z - (I - Z) /6/8

$$\frac{1}{12} \left(\frac{3-21}{1025+13} \right) = \frac{1}{1025+13} \left(\frac{3$$



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