CENTRO DI UNA CONICA 12.36 PARABOLA, CONICA & MERBOLE DINOSTRAZIONE PER DIMOSTRALE UT TES. CONSIDERO IL POI COORDINATE OMOGENEE [AOO, AOI, ADI] & NE PACCIO UI POLA RE. SE DIMOSTRO CHE È LA RETTA IMPROPRIA 40 PROVETO CIFÉ IL PUNTO CONSIDERATO È CENTRO BER DEFINIZIONE (POLO RETTA IMPROPRIA) $T_{c}: \left(X_{3} X_{1} X_{2} \right) \begin{pmatrix} Q_{0.3} & Q_{0.1} & Q_{0.2} \\ Q_{0.1} & Q_{11} & Q_{12} \\ Q_{0.2} & Q_{11} & Q_{22} \\ Q_{0.2} & Q_{0.1} & Q_{22} \\ Q_{0.1} & Q_{0.2} & Q_{0.2} & Q_{0.2} \\ Q_{0.2} & Q_{0.2} & Q_{0.2} \\ Q_{0.2} & Q_{0.2} & Q_{0.2$ QnAs + 0, A 01 - Q22 A22 > = 0 (25 TES. D1) = (X) X1 X2) (Jet A) UISTO CAE LA CONCA NON E DEGENERZ.

QUINDI TO LARIA CONCA DUINDI TO QUINDI To: Xo Let(A) = 0 > [Xo = 0] C É CENTRO PERCHÉ TO É LA REIM IMPROPRIA ESEMPIO C: x2- 4xy+ 4y2- 14x-2y+3=0 $A = \begin{pmatrix} 3-7-1 \\ -7 & 1-2 \\ -1-2 & 4 \end{pmatrix}$ $= \begin{pmatrix} 4-1 & -12 & -14 & -14 & -1 & -12 & -42 & -42 \\ -1-2 & 4 & -12 & -42 &$ C NON DEGENERE Aros = | 1 -2 | = 4-4-0 [PARABOLA] [= [Aoo, Ao, Aoz] = [5, -1-7, 2/, 1-7, 1] = [0, 30, 15]

$$\Pi_{Roo}: (x_0, x_1, x_2) \begin{pmatrix} -\frac{1}{4} - \frac{1}{4} + \frac{1}{4} \\ -\frac{1}{4} - \frac{1}{4} \end{pmatrix} \begin{pmatrix} 0 \\ -\frac{1}{4} - \frac{1}{4} \end{pmatrix} = 0$$

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ESEMPTO PARABOLA:

$$C: X^2 \cdot 4xy + 4y^2 - 14x - 2y + 3$$
 $A = \begin{pmatrix} 3-4-1 \\ -41-4 \end{pmatrix}$
 $C = \begin{bmatrix} 0,2,1 \end{bmatrix}$
 $C = \begin{bmatrix} 0$