$y = 2 2 x^2$  $x^{2} - y^{2} = 1$ a, x² fa, xy +a, y² x  $(\alpha x + b y + c)(dx + cy + f) = 0$  $x^{2} + 2x - 1 + y^{2} = 0$  $(x+1)^2+4^2=2$  $2x^{2}+2x-1+y^{2}=0$ a2 + 2aB + Q2  $2(x^2 + x 2 \frac{1}{2} + \frac{1}{4}) - \frac{1}{2} - 1 + y^2 = 0$  $2(x + 12)^2 + y^2 = 3/2$  $\frac{(x+1/2)^2}{(1/\sqrt{2})^2} + y^2 = \frac{3}{2}$  $\begin{pmatrix} x^2 & x & 1 \\ 1 & y^2 & 1 \\ 1 & 1 & 1 \end{pmatrix}$  $(X-X)^2 + (Y-13)^2 + 1$  $\alpha_{11} x^2 + 2 \alpha_{12} xy + \alpha_{22} y^2 + \alpha_{33} = 0$  $A = \begin{pmatrix} \alpha_{11} & \alpha_{12} & \alpha_{13} \\ \alpha_{21} & \alpha_{22} & \alpha_{23} \\ \alpha_{31} & \alpha_{32} & \alpha_{33} \end{pmatrix} \qquad \begin{cases} J_{1} = \alpha_{11} + \alpha_{22} = const \\ \alpha_{11} & \alpha_{12} \\ \alpha_{21} & \alpha_{22} \end{cases}$ J<sub>3</sub>=1A|
PSOCOD J<sub>2</sub> > 0 7/ munc (1) J2 < 0 rurep  $x^2 + y^2 + \lambda = 0$  $J_2 = 0$  napasona  $x^{2} + 2x + 1 + y^{2} - 1 = 0 \quad (*) \rightarrow x \quad (1 \quad 0 \quad 1) \quad J_{1} = 2$   $(x + 1)^{2} + y^{2} - 1 = 0 \quad (1 \quad 0 \quad 0) \quad J_{2} = 1$   $0 \times y \rightarrow 0 \times y \quad (0,0) \quad xy, \quad (1,0) \quad xy \quad (1,0$  $x' = x + 1 \qquad \left(x'\right)^2 + \left(y'\right)^2 - 1 = 0 \left(x^*\right)$  $X' = \cos y \times - \sin y y$   $Y' = \sin y \times + \cos y y$  $\varphi = n/2$