II L= x+xy+27+7 (x2+y2-2) KAPACESA 1 to = 3 + 22x =0 x = 1/4 76y = 2+21y = 2 y=1/2 $\begin{cases} 2^{2} - 2 - 1 = 0 & 1 = 2 \\ x^{2} + y^{2} = 2 & 16 + 4 = 2 = \frac{5}{16} \end{cases}$ Thosepum x1, y1, 22 = 1 16 + 4 + 50 V1 $\frac{16 + 64 + 50}{216} \vee 1 \qquad \frac{150}{256} \leq 1 - 8e\mu s$ $U(x, y, 2) = \frac{1}{4} + \frac{2}{2} + \frac{2 \cdot 5}{16} = \frac{-1}{4} + 1 + \frac{5}{8} = \frac{2 - 8 + 5}{8}$ -1-/-H" IV L= x+xy+27+2=(x1+y2+222-5)+2=(x4-y4-2) /4=1+2/3×+2/1×=0 1+2/1×+(4/1+4)x=0 1 Ly = 2+21, y+21, y = 2 2+27, y+(41,+4) y=0 Lz = 2+4/12 = 2 = 0 /1 = 2/1+2 he Syno $x^{2}+y^{2}+\lambda 7^{2}=1$ $x^{2}+y^{2}=1$ $x^{2}+y^{2}=7$ $x^{2}+y^{2}=7$ $x^{2}+y^{2}=7$ $x^{2}+3+4\lambda=9$ Byrno 2=1+42-9 CHOSA 2 = 1 - he nos xegai. 242 = 4 71=1 -1 7 1/2 X=2(32,+2) y= (32,+2) 4(32,+2)2 + (32,+2)2 = 2 (46),1)

4+4-2(371+2) 32. - 2= + /2 X= -1 2(=1=) Y= -1= 41(2)= +1 = 1 = 42= 4(25/2 1 / 1) = 1 + 4 + 25/2 = = + mo panneymee mo panson (N2?) x2+ tg (uy) = ln (u+21) u(0,1)=0 1x h 1 x + y + 4 = 2 h v + 1 8(0,1) = 1 P(xy 20) = (x'+tg(4y)-In(4+0))

they will corro - I - 0 18 -2/= 0-(-1)-1-1 Omnumo ! mye rependen morecus; 0 + tg(0.1) = hs - Sepas 0+1+0=2/n1+1- Sepan Tenens Pajaonum 8 Weinopa: $\int_{1}^{\infty} \frac{1}{2x} + \frac{1}{\cos^{2}(yy)} = \frac{1}{1+y} + \frac$ SORGU 4x=-1 V =0 Is he y $\frac{\int u_{3}^{2} \cdot y + u}{\cos^{2}(uy)} = \frac{u_{y}^{2} + v_{y}^{2}}{u + v}$ $\int \frac{u_{y}^{2} \cdot y + u_{y}^{2}}{\cos^{2}(uy)} = \frac{u_{y}^{2} + v_{y}^{2}}{u + v}$ $\int \frac{u_{y}^{2} \cdot y + u_{y}^{2}}{1 + u_{y}^{2}} = \frac{u_{y}^{2} + v_{y}^{2}}{1 + u_{y}^{2}} =$ + yuxx cos'(yu) - 2 cos(yu) (yux) > (uxx + 0xx)(uxx) - (vxx) 0 + 4 xx = 20xx v - 26x 12 12+ 4" - 0 = 4" + 0" - 1 10" = 3 24" = 20" = 6111116

(u'y y + u'y + u'y) cos'(yu) - 2005(44) 517(44) cos 4(44) (u'yy + vyy)(u+v) - (u'y+vy) Wyy = 20/y 5 - 26/y)" (u'y -1-1) - 0 = u'y + vyy -1 4/4 - 2 = 4/4 + V/4 - 1 V/4 = -1 4/y 2 - 2 (uxy y + ux) cos (yu) - 2 cos (yu) (uy y + uy) yux Cos (94) (uxy + vxy)(U+ v) - (uy + vy)(ux + vx) 4xy 2 2 252 2 - 254. Vx 1 1/xy - 1 Q = 11/xy + 1/xy - 1 /Vxy = 0 Mxy = 2 Vxy lung = 0

viry) - odx + ody + 1 (3 dx + odrdy - 1/4) 1+4)2 = 3 dx - 2 dy $\frac{1}{4x^2} = 2 + \frac{32}{x^2}, \quad \frac{3^2f}{3y^2} = 8 + \frac{32}{4x^2}$ dxyy = 0 +16 >0 Min. x +16 B(4,2) 2 2 + 22 + 24 (-4-2) - anaromino (42)

(-4,2) (4-2) - 4- Jule neonfogeneum f((+4+2)) = 37-32/h8 [NY] J2 + J'2 + m2 = 0 2x= 42+ 22 y=425 x = 41 + 102 12 = Zx · Xu + Zy - Zx · U + Zy · V $\frac{d^2}{dv} = -\frac{J^2}{dx} \cdot v + \frac{J^2}{dy} \cdot u$ 7 1/2 = (9, x 11 + 9, x 1) 11 + 94 + (9, x 1) 11 + 95 12 = (-1x2 V + 12 V) N - 12 12 > (W2+ 22) + (327 + 342) d 7 + 32