Dugg fraguence KAPACIDA MESSS 22 = x + /nz. 2dz = dx + dz /. Z 22 dz = dy + dz 122-1) d2 = Jaly 2-7=y+c c=, y= ?2-7+c, cer 0 x = 22 - /n 7 Oncom: 2 y= 22 - 2 + c, cell 44=x2+(4) y= x/4 + (31)2/4 ] y'= 7 2=> dy= 7dx y = x/4 + 2/4 de dy = xolx + xolz 27 dx = x dx + x d7(27-x)dx + (-x)d7=0  $p_{\frac{1}{2}} = 2$   $p(x, \overline{z})$ ,  $q(x, \overline{z})$   $p_{\frac{1}{2}} = 2$   $q_{x} = -1$   $q_{x}$  $m_2(27-x) + x \cdot m_x' = -3 m$ x - jabereum monour om dancenus, uno

Snorum m(x) Xm' = -3m.  $m' = \frac{-3}{x} m$   $m = C \cdot e^{-3} = x^{-3}$ 27-X dx + -1 d7 = 0 - Invo yna U(X, Z) = C - smo faceque  $u'_{2} = \frac{-1}{X^{2}}$  (=>)  $u = \frac{-1}{X^{2}} + c(x)$   $u'_{x} = \frac{27 + x}{X^{3}} = \frac{27}{X^{3}} + c'(x)$ c' = 1 . C = X + A A A R  $\frac{-2}{x^2} + \frac{1}{x} = C$  $Z = \chi^2(C - \frac{1}{\chi})$ y' = x'(c - 1/x)Jdy = [x'(c-1/x)dx y = 3 - 2 + c2, c, c, c, E E IR

[N3] y'= ts(y-2x) 2 = y-1x ==> d7 = dy - 2dx == s -> dy = d7 + 2dx ==> dy - 2dx == s -> dy = d7 + 2dx ==> dy - 2dx == s Z'+2 = tgz -2'= 492 - 2 + C(X) J dz = fdx In(tgz-2) - In (cosz) - 27 = x Tell In(+s(y-2x)-2) - In(cos(y-2x)) - 2y +4x = 5x Outem: In(t)(y-2x)-2)- In(cos(y-2x))-2y-x=0 1/27' + 1/4 x (7')2 + 1/2 x 2" = \*4 x (7')2 + x3 C, C2 EX  $XZ'' + Z' = 2X^3$ t= 2' 7"= t' Xt'++=2x3  $t' - \frac{1}{x}t + 2x^2 - \text{curve in } \alpha = \frac{y - \text{nucle}}{y - \text{nucle}}$   $t = (c + \int 2x^2 \cdot e \quad \text{olx}) \cdot e \cdot \frac{y - \text{nucle}}{x^3}$   $= (c + \frac{x^4}{2}) \cdot \frac{1}{x} = \frac{c}{x} + \frac{x^3}{2}$ 

7= 5+5 Z = c/nx + 8 + cz (Z = 2/ng) 2/ny = c/nx + 8 + c2 NS1 2xy'-y=y'ln(yy') y'= 2 (=> 7 = dx 22 x = 2 /n 42 + 4 1/n 42 + 44 x = 2 + 22 01x = (247 + 27) dy + (8 - 4) d2 dx = 1 + 1 + (1 - 1) - d2  $\frac{1}{7} - \frac{1}{27} - \frac{1}{27} = \frac{7 - y}{22^2} = \frac{7}{2}$ 2y9 = 2'y = 2'y 2 = 4 2 Z = c.e 5 = dy y'= c / (=> ) (y dy = ) dx C. y2 = X + C2 One Bens C. y = X + Cz , C, C, ER (8) 18 h [NET y = 2 xy + 92 (y) 5 2 = X = y - y = 2 dx = (27 - 472) dy + (22 - 42) dz dx = 1 - y72 + (-y11 + y2) d7  $\frac{1}{2} = \frac{1}{22} + \frac{1}{2} + \frac{1$ 1) dz 1+2925 (-y)·(1+2475) = Z'y Zy = - 1 Z Z = C e - - dy = C - 4 Jydy = Jolx. Coy'= X + Cz OneBenn: Cy' = x + Cz, C,C, ER

[N7] y + xy = 4/9"-Vy'= 2 y'= 22 = ax  $xz^2 = 4z - y$   $z = \frac{4}{7} - \frac{y}{7^2}$   $dx = \frac{1}{7^2} dy + (\frac{-4}{2^2} + \frac{2y}{7^2}) \cdot dz$ dx -1 + 29-42 el7  $\frac{1}{7^2} = \frac{-1}{7^2} + \frac{2(y-27)}{7^3} \frac{d7}{d(x)}$ dt = 2 2 2/4 - 27) (y-27) d7 = Zdy 7 dy + (27 - 4) dz = 0 P==1 9x =-1 Muyen numerperperpendice enonumero m2.7+m= my (27-y)-m  $m_y'(27-y) - m_z'\cdot 7 = 2m$ Sharum, m(7) - 2 - Jabucum. monono or 2 m' = 7 m 1= m=c. e = 1 1 dy + 27-4 dt = 0 - Inco YTD J u(y,7) = C, CeR - due penenne

 $u'_{1} = \frac{1}{2} < 0$   $u'_{2} = \frac{1}{2^{2}} < 0$   $u'_{3} = \frac{1}{2^{2}} < 0$   $u'_{4} = \frac{1}{2^{2}} < 0$   $u'_{5} = \frac{1}{2^{2}} < 0$   $u'_{7} = \frac{1}{2^{2}} < 0$   $u'_{7} = \frac{1}{2^{2}} < 0$ C(2)= 2 (=> C= 2/n2+A, ACR Peneenne: 4/7 + 2/17 = C y = -27/n7 + C, 7 y = 27/n7 + C, 7 x = 7 2/n7 + C, 7 Onulem:  $\begin{cases} y = -27/n7 + c.7 \\ 2/n7 + (c.44) \end{cases}$