

13 Of Sh Zoganne 2 2 V4=LdI dt 70 10 10 1 20-0,01 dI + 2 I 13 0,01 1 - 20 - 2] 3 df 20-21 dt 0,01 3 3 3 dI dt 5 0,01 THE PERSON IN THE fdt 20-21 0,01 In 1901 +C = 100t +C 1/2 + In I -101 = -200 + + 200 £ + C 1-10=K 10 -200 t 3 I-10= (10-10).e I= 10 + 10e 4 - Io 2

Alt Sagame $\begin{cases} \dot{X} = Y - X^3 \\ \dot{Y} = -Y^2 - X^2 \end{cases}$ $V(x,y) = \frac{1}{2}(x^{2}+y^{2})$ V(x,y) = xx + yyV(x, r) = x(y-x3)+r(-r3x3) V(x, y) = x y - x - y 4 - x y 2 V(x, y) = - x - y 4 - xy 2 Beerge offryatenous => + typing encreme Ecocizusp

L havigen no Bagare 7 K= > (x, -x)(4, -9) 5(x-x)2 * Keg Mg kython * K=3=3a weny mosecop eropus Torge 38 29 guler: S= 3.29=87102 3 km zonora Orber: 87 m jonos 100 K= 3 agail 8: 100 K= 2,75 Torge Acero granger 79,75 km zonora

Je + Kekm d um4 1/e = 0* - 9

R Napausepersureouse 4p-e Jx2 + Km Ke x + Km Kp x=0 Tress acreme he muene us R roye: uz R. roye: (Ke Kin) - 4 J Kin Kip > 0, 0 mgg R) - 4 J Kin Kip > 0, 0 mgg Kp \(\) ke kin \(- > \) kip \(\) 1. Orber. Kp & 1 JO+ ke Km 0 = Km4 Bagarer 6 JO+ Ke Km 0 - Km (4(0-0)- kd0) //x-0-0 Ji (ke Kon + Kon Kel) x + 9 km x = 0 Vapansepermenne 7p-e

3 x2 (Ke Km + Km Kd) x + 4 km = 0 Oscarche hepergrupobus (Ke Kin + Kin Kd) 2 4 JKin 4 Kin > 0 <=> Kd > -0,1 7 11. Kd - horolus - honoxuseronel Benunus Benurus no V Kel 20 hepenenympolone ne objet. Ofber (ld 20)
3 agara 3
4 - 4 + 4 - 4 = 6
3 awere: 4 - e 3 At 2 At 1 At 1t -e = 0 e to 50 1:et e t (3 - 1 - 1 - 1) = 0 T.U. 3 A= 2 hopmi 3 13-22-1-1=0 3 Cicteus tes crash now, 3 2 Tour les perneune 12 = -L guarenero a sparonenquentro perset.