N 17.40(2) $\dot{X}_{1} = -\chi_{1}^{3} - \chi_{2}^{3} + \chi_{1}\chi_{2}^{3}$ $\chi_{2} = \chi_{1}^{3} - \chi_{2}^{3} - \chi_{1}^{4}$ $V = X_1 + X_2$ $V = \sum_{i=1}^{3} \frac{\partial V}{\partial x_{i}} \dot{x}_{i} = 4x_{i}^{3} \left(-x_{i}^{3} - x_{2}^{3} + x_{1}x_{2}^{3}\right) + 4x_{2}^{3} \left(x_{i}^{3} - x_{2}^{3} - x_{i}^{4}\right)$ $- Y(-x_1^6 - x_1^3 x_2^3 + x_1^4 x_2^3 + x_1^3 x_2^3 - x_2^6 - x_1^4 x_2^3) =$ $=-4(X_1^6+X_2^6)$ V- nous vieno or or egenera, a V- ormyatembro onregemena => => 170 Th Benyruoba of acumnos wecupis yorawnbocsu: MP acumnoswecum ycourubo

1/17/11/15

7 11 9 1 (3) $(\dot{\chi}_1 = \dot{\chi}_1 + \dot{\chi}_2 + \dot{\chi}_3)$ $\begin{cases} \dot{x}_2 = x_1 - x_2 - x_2^3 \end{cases}$ $\sqrt{-\chi_3-\chi_5}$ $\frac{1}{1-1} = \frac{2}{3 \times i} \times i = 2 \times 1 (\times 1 + \times 2 + \times 1^{3}) - 2 \times 2 (\times 1 - \times 2 + \times 2^{3}) = 2 \times 1 (\times 1 + \times 2 + \times 1^{3}) = 2 \times 1 (\times 1 + \times 1^{3}) = 2 \times 1 (\times 1 + \times 1^{3}) = 2 \times 1 (\times 1 + \times$ $= 2(\chi_1^2 + \chi_1 \chi_2 + \chi_1^4 - \chi_1 \chi_2 + \chi_2^2 + \chi_2^4) =$ $= 2 \left(\times_{1}^{2} + \times_{2}^{2} + \times_{1}^{4} + \times_{2}^{4} \right)$ J OSIOCTO "V>0": 2(x1, x2): X17 X2 3, rge V>0 u V-nouvxurenona => no Th. Yeraela MP re ycraurubo. N17.30 Duranua congratantai cuctemor onworbaltes grabierusum A j + B j + C g = 0 Au C-nouexurendro eng-rur. B-znanonco-

янная квадрочиная додина. Don-76: 9=0-acumnormeen yoratrubol MP 6 Tom u Tomburo Tom currone, com Un Bus 70, rige u,,..., un - ammuntygture Bentgror Ag+ Cg = 0 Don-Bo: 1) Au C- nouskuremorio ong-rur => => 9=0 - ycrourubol 17P 2) Acumnot wichen yoranno $\Leftarrow > dE \neq 0$ dE = d (\(\frac{\frac{1}{2}TA\frac{1}{2}}{2} + \frac{9}{2}TC\frac{1}{2}\) = \(\frac{1}{2}TA\frac{1}{2} + \frac{1}{2}A\frac{1}{2}}{2} + \(\frac{1}{2}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2}}{2} + \(\frac{1}{2}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2} + \(\frac{1}{2}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2} + \(\frac{1}{2}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2} + \(\frac{1}TA\frac{1}{2} + \frac{1}{2}TA\frac{1}{2} + \(\frac{1}TA\frac{1}TA\frac{1}{2} + \frac $+\frac{\dot{q}^{T}C\bar{q}}{2}+\frac{\bar{q}^{T}C\dot{\bar{q}}}{2}=\frac{(A^{T}\dot{\bar{q}})^{T}\dot{\bar{q}}}{2}+\frac{\dot{\bar{q}}^{T}A\dot{\bar{q}}+(C^{T}\dot{\bar{q}})^{T}\bar{q}}{2}$ $+\frac{q^{T}Cq\overline{q}}{2} = \overline{q}T(A\overline{q} + C\overline{q}) = -\overline{q}TB\overline{q} \neq 0 = >$ 2=> Cour cnouroit guccunoques->

