Hepare 4

A-ymaxanena (AA'=F) se c/3 (Ai=wi eyus. oбранием «Thancron. es det (A (C-AA))=0 det (CAT-AE)=0, que 1-bré re « e coècob. queur. => det (cx) = 2, 2; ... 2 = w? w? ... w? = det e => \(\omega_n = \frac{1}{\int_i \omega_i} \) \\ \det \(\det \) \(\det \) 216.16) Mama kooppu $\frac{x^2}{a^2} + \frac{16^2}{68^2} = 5$ > =>/x=acosq x /y=Bsinq Π= Π(ce) = mg/since - mwarcore - 6 $T = T(\varphi) = \frac{m}{\lambda} \left(\frac{\lambda^2 + i \frac{\lambda^2}{\lambda^2}}{2} \right) = \frac{m}{\lambda} \left(\frac{3}{2} \cos^2 \varphi + \frac{3}{2} \sin^2 \varphi \right) \dot{\varphi}$ $\frac{\partial \Pi}{\partial \varphi} = mgb \cos\varphi + mw^2a^2 \cos\varphi \sin\varphi = 0$ $|S| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = \frac{qb}{d}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \Omega \cdot P \cdot \frac{1}{2}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \frac{qb}{do^{2}a^{2}}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \frac{qb}{do^{2}a^{2}} - \frac{qb}{do^{2}a^{2}}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \frac{qb}{do^{2}a^{2}} - \frac{qb}{do^{2}a^{2}}$ $|C| = -\frac{qb}{do^{2}a^{2}} - \frac{qb}{do^{2}a^{2}} - \frac{qb}{do^{2}a^{2}}$ 2°Ω | = -mgb-mw²a² <0 > μεμεποιί ιειιδια πριε tw∈ ₽. $\frac{\partial^2 \Pi}{\partial \varphi^2}\Big|_{\varphi=\varphi_2} = ngb - nw^2\alpha^2 = u \left(gb - w^2\alpha^2\right) : upu w^2 > gb$

Aureahngeen : q -- aresin fb |a²81h²cq + β²cos²q)ç + (β6 + ω²a²8hq)cosq = 0 (a²A² + β² (1 - A²)) ç + (q-q,)(β6 A³ + ω²a²(1-A²)) + + /pb - 26 a2) \ \(\lambda - \frac{1^2}{a^2} \\ \text{if} + \left| \frac{1^2}{A^2 + \frac{B^2}{a^2} \left| 4 - A^2 \right) \ \(\text{if} = \frac{1}{a^2} \left| \frac{1}{a^2} \ = q, w2 (1-A2) => $\int_{2}^{2} = \frac{a^{2}w^{2}/w^{4} - \frac{g^{2}b^{2}}{a^{4}}}{a^{4}g^{2}b^{2} + b^{2}(w^{4} - \frac{g^{2}b^{2}}{a^{4}})}$ =0

App $c_{q} = c_{q} \cos(\Im t) + c_{q} \sin(\varpi t) + c_{q} \sin(\varpi t) + c_{q} \sin(\varpi t)$ A2+B2/1-A2) N=2 => g= /x1/x2) N= kbx12+ k(x2-x1)2= $= kx_1^2 - kx_1x_2 + \frac{kx_2^2}{2}$ $= \frac{kx_1^2 - kx_1x_2 + \frac{kx_2^2}{2}}{2}$ $= \frac{kx_1^2 - kx_1x_2 + \frac{kx_2^2}{2}}{2}$ $=> C = \begin{pmatrix} k & -\frac{1}{5} \\ -\frac{1}{2} & \frac{1}{2} \end{pmatrix} \qquad A = \begin{pmatrix} m_1 & 0 \\ 0 & \frac{m_2}{3} \end{pmatrix}$ $\frac{dx}{dx} = \frac{dx}{dx} + \frac{dnu}{2} = \frac{k}{2} = \frac{dx}{dx} + \frac{dnu}{2} = \frac{k}{2} + \frac{dnu}{2} = \frac{dnu}{2}$ Mais jeur acomuculeus mexpy maccame: $\int_{-1}^{2} \frac{1}{2} \frac{1}$ => $\{u_1 = 3k => \frac{u_1}{m_2} = \frac{3}{2} => m_1 = \frac{3}{2}m_2 = 0$ = 1 1 tm2 + k / m22 - m23 2 1 2 m2 + 3 m2 + 3 m2) 3 1 2 m2 2 =

$$A_{1} = \frac{4 \cdot 5}{3 \cdot u_{2}} = \frac{(2 + 5)k}{2 \cdot (2 \cdot u_{1})}$$

$$A_{2} = \frac{k}{m_{1}} = \frac{2k}{m_{2}}$$

$$A_{2} = \frac{k}{2 \cdot u_{1}} = \frac{k}{2 \cdot u_{1}}$$

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$$A_{7} = \frac{$$

$$\frac{1}{w_1} = \sqrt{\frac{m_1}{3k}} = \sqrt{\frac{m_2}{3k}} = 7 \quad w_1^2 = \frac{k}{dw_1} = \frac{k}{3m_2} = \frac{1}{2}$$

$$A = \begin{cases} 2m & md^{2} \\ ml & ml^{2} \end{cases}$$

$$dd (C - 1d) = 0 \Rightarrow \begin{cases} -3ml & -3ml \\ -4ml & mgl & -4ml^{2} \end{cases}$$

$$-3ml & mgl & -4ml^{2} \end{cases}$$

$$A_{11} = \frac{3}{3} \frac{1}{3} \frac{1}{9} \frac{1}{9} \frac{1}{12} \frac{1}{3} \frac{1}{3} \frac{1}{9} \frac{1}{9} \frac{1}{12} \frac{1}{3} \frac{1}{12} \frac{1}{9} \frac{1}{12} \frac{1}{1$$