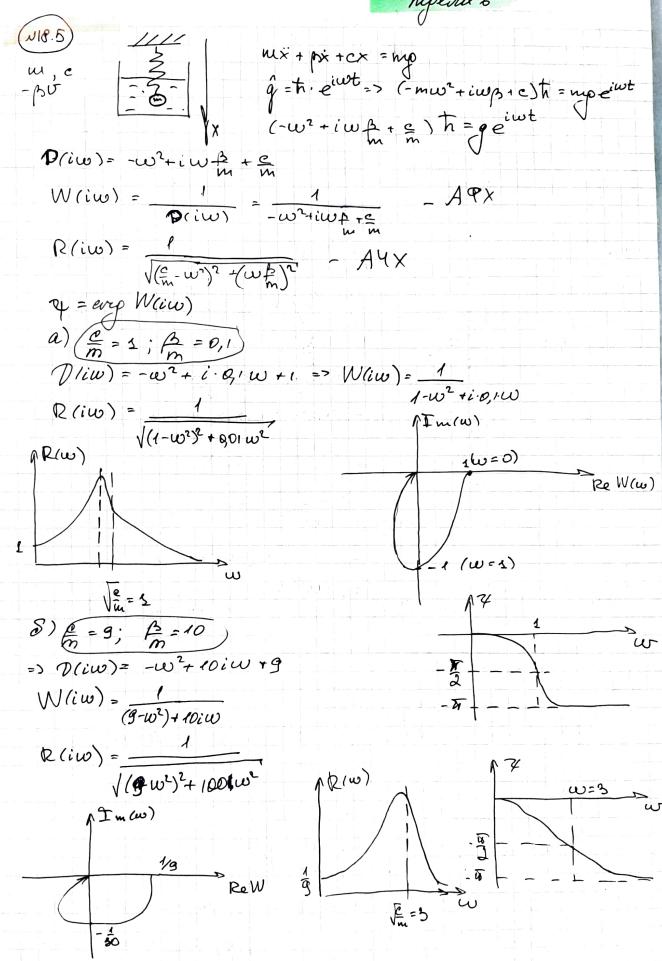
Meperse 6



Répenseur B Hell CO. Mpureur 2, « Ez ga cureune muse am, c., c = Aosin wt => N= e 22 + c 2,2 + e, (2,-72)2+ g= (2) + mp (2,+22) $T = \frac{m_{2i}}{2} + \frac{m_{2i}^{2}}{2} \Rightarrow A = \begin{pmatrix} m & 0 \\ 0 & m \end{pmatrix} C = \begin{pmatrix} e+e_{1} & -e_{1} \\ -e_{1} & c+e_{1} \end{pmatrix}$ Ağ+ Cq = -gm(!) + m= (!) Agoemæbeun z. = Aosmut
=> Ağ+ Cq = -gm(!) = Aowimsinwt (!) Margeen personne b beege: q = & gm/1) - tisnut
=> (-w2 A + C) to zimut = - Ao mw2 cimut (1) -> h = -mw2Ao (0-w2A)-1/1) (C-w2A)=(1w)=(e+e,-w2m -e, $W = \int_{-\infty}^{\infty} (\omega) = \frac{1}{(c+e, -w^2m)^2 - e^2} \begin{pmatrix} e + e, -w^2m & e, \\ e, & c+e, -w^2m \end{pmatrix}$ => h = -mw Ao (c+e,-w2m+c) = mine (=) 02+00, cysm+0,0+0,-0, 102m+0,000,000+0,000+0,000+0,000+0,000+0,000+0,000+0,000+0,000 = e²+2cc, +w²mc +c+2e, -w²m c+e,c+e,-e,w²m -- ew²m-ew²m+w²m -c; = = e²+2cc, - 2w²mc - 2c,w²m+w²m

=> \(w = \sqrt{e} \) \(\sqrt{e} \)

N18.37 $\begin{array}{l}
A\ddot{q} + cq = Q(t) \\
q = u\theta
\end{array}$ L,m,c,a a le contraction Aosinpt ut Au 0 + Cu0 - O(t) 0 + 10= u Q(t) $\frac{1}{2} = \frac{m l \dot{e}^2}{2} + \frac{m l^2 \dot{e}^2}{2}$ 1 = cat (sing - son 4) + mgl (1-cosq + 1-cos 4) = 2 car (4-4) + mgl (12 + 72) $A = \left(\frac{ml^2}{3}\right)$ $O = \left(\frac{mgl + ca^2 - ca^2}{3}\right)$ $O = \left(\frac{mgl + ca^2}{3}\right)$ 1.0-1A = 0 Mpuces memberen aumerfrere => \(\bar{u}_1 = (1)\); \(\bar{u}_2 = (1)\) => $w_1 = \sqrt{\frac{3q}{2k}} - \lambda_1 = \frac{3q}{2k}$; $\lambda_2 = \frac{3q}{2k} + \frac{6ca^2}{ml^2} => w_2 = \sqrt{\lambda_2}$ 4, Au, = 2 ml= u; Au, $u = \sqrt{\frac{3}{2}} \frac{1}{\sqrt{ml^2}} \left(\frac{1}{1} - 1 \right)$ Pacemonpues every une payour, periert. un gour emepaeses: Q=ml Aow2(1) sinwt => Ywn waren =>Q=l=ly=meAowinut
Q=ml Aow2(1) sinwt ut Q = \(\frac{3}{2} \frac{m\lambda A \cdot \nu}{\sqrt{m\R^2}} \rac{1}{1 - 1} \rac{1}{1} \cdot \cdot \cdot \cdot \nu \text{t} = \left(\sqrt{\frac{3}{2}} \A \cdot \omega \sqrt{m\cdot \s\ Theyever preme below: $\theta_1 = \frac{3q}{2\ell} \theta_1 = \sqrt{3m} A_0 w^2 \sin w t$ Theyever preme below: $\theta_1 = \frac{3q}{2\ell} \theta_1 = \sqrt{3m} A_0 w^2 \sin w t$ => $d = \sqrt{\frac{3}{2}} \frac{m}{\frac{3}{9} - 2 l w^2}$ => $d = \sqrt{\frac{3}{2}} \frac{2 l Ao w^2}{\frac{3}{9} - 2 l w^2} \frac{2 l Ao w^2}{\frac{3}{9} - 2 l w^2} \frac{2 l Ao w^2}{\frac{3}{9} - 2 l w^2}$ Phopeeraceer objectivation he pexop: $(4) = u\theta = \sqrt{\frac{3}{2}} \cdot \frac{1}{6} \left(\frac{3m}{2} + \frac{21 \text{ for } 21 \text$ $= \frac{3A_0 \omega^2}{3g - 2l\omega^2} \left(\frac{1}{2} \right) \sin \omega d \qquad \omega = p \Rightarrow \frac{1}{2g} \frac{3A_0 p^2}{2lp^2} \sin pt$

$$|\varphi|^{05us} = ||f||^{1} ||e||^{2} ||f||^{1} ||e||^{2} ||f||^{1} ||e||^{2} ||f||^{1} ||e||^{2} ||f||^{1} ||f||^{2} ||f||^{2}$$