of U= 1/2 SEA (on) da son [EASU] + PR CM, to $A = \frac{1}{7} \int_{0}^{1} \left(\frac{9u_{3}}{3u_{3}} \right)_{0}^{1} du = \frac{9u_{3}}{3u_{3}} \int_{0}^{1} \left(\frac{9u_{3}}{3u_{3}} \right)_{0}^{1} + u_{3}^{1} u = b$ n= = = 2 e2 (34) qr 3 [e2 34] +fe = 81 365 4 $T = \frac{1}{2} \int I p \dot{\phi}^2 dn$ $U = \frac{1}{2} \int T \left(\frac{\partial w}{\partial n} \right)^2 dn \quad \frac{\partial}{\partial n} \left[T \frac{\partial w}{\partial n} \right] + 6 = m \vec{w}$ T(t): c2 d2w 1 d2T = - 02 JEJ (2 2 W(N)) 2 dx 7(4) = Xe-800 t cos (wat - 4) + J sA (wcm) 2 dn $x = \int_{0}^{2} x_{0}^{2} + x_{0}^{2} + 2x_{0} x_{0} + x_{0}^{2} + 2x_{0} x_{0} + x_{0}^{2} + 2x_{0} x_{0} + x_{0}^{2} + x_{0}$ $T = \int_{-2}^{2} \frac{1}{2} m \left(\frac{2\pi}{2m} \right)^{2} dn$ φ = tan-1 [3/0 + 5 cm x0] \$= C = 1 9(+)2 j m6(m)2d7 $V = \frac{1}{2} \int EI \left(\frac{3^2 w}{3 n^2} \right)^2 dn$ x(t) = (c1+c2t) e- wat , C2 = 20 + Wn 210 1 9 (t)2 5 E 26" (n)2dn C- 2 + 1 63-1) mut (fp = Fo Amp - mo, x - 2 fp C1 = x000(2+12,-1)+x0 $\frac{2 \omega_{1} \int_{\xi_{2}-1}^{\xi_{2}-1} - \chi_{0}}{2 \omega_{1} \int_{\xi_{2}-1}^{\xi_{2}-1} - \chi_{0}}$ For bornes Fo where For borne = Fo when I (20- For war) rp(t) = X cos(wt-d) Nh = X0e cos(wt-do) $d = t_{0} - \frac{c_{0}}{(k - m\omega^{2})^{2}} \times \frac{c_{0}}{(k - m\omega^{2})^{2} + c_{0}^{2}} \times \frac{c_{0}^{2}}{(k - m\omega^{2})^{2} + c_{0}^{2}} \times \frac{c_{0}^{2}}{(k - m\omega^{2})^{2}} \times \frac{c$ E 5,1 = J(1-21)2+(25x)2 4 = tan-1 (25x

Xo = (20- x cord)2+1 (5 cunx + 20-5 cun x cord - cux x x n p) ton do = 5 wn x0+ x0 - 5 wn x cosd - w x xnd / For f(1) = Fo c ad (xo - xwid) np = xeiwt Force on wase (Steady state case) X = Fo e-i4 $f_{\tau}(t) = F_{\tau} \omega s (\omega t - \phi_{\tau})$ [(k-mw])2+c2w2]1/2 w2-w1 \$ = two-1 (cw / k-mw2) $F_T = F_0 \int (+(289)^2 = kn + cn)$ J(1-92)2+(259)2/F(1)= ao + & a; w) jut + & b; 4njat ton dr = 2 8 93 $a_{j} = \frac{2}{3} \int_{0}^{\infty} F(t) \cos j\omega t \, dt \quad b_{j} = \frac{2}{3} \int_{0}^{\infty} F(t) \sin j\omega t \, dt$ $\int_{0}^{\infty} \frac{2\pi}{3} \int_{0}^{\infty} F(t) \sin j\omega t \, dt \quad b_{j} = \frac{2\pi}{3} \int_{0}^{\infty} F(t) \sin j\omega t \, dt$ 1-92+(292)21 o(t)= e-sunt Base encitation problem Relative mz +cz+kz = -my x(t)= (9(t-7) F(7) dJ absolute min + c n + kn = cy + ky For moving bruse borce or base $\frac{f_{\tau}}{f_{\tau}} = 9c^{2} \left[\frac{1 + (259)^{2}}{(1 - 9i^{2})^{2} + (259)^{2}} \right]^{1/2} \left[\frac{x}{y} = \left[\frac{1 + (259)^{2}}{(1 - 9i^{2})^{2} + (259)^{2}} \right]^{1/2} \right]$ $\frac{x}{y} = \left[\frac{1 + (259)^{2}}{(1 - 9i^{2})^{2} + (259)^{2}} \right]^{1/2} \left[\frac{x}{y} + \frac{1}{(1 - 9i^{2})^{2} + (259)^{2}} \right]^{1/2}$ phase is some as that of y(t) $\phi = ta^{-1}$ $\left[\frac{2\xi x^3}{1 + (4\xi^2 - 1)} \right] x^2$ $a = ton^{-1} \left(\frac{259}{159} \right) \frac{1}{(1-92)^{2} + (259)^{2}} \frac{1}{(259)^{2}} \frac{1}{(259)^{2}}$ a;= = 2 % F; cos 2; Tt; 6 (n) = 1 [wo (n), -1] wo (xi)dn' b) = 2 & F. xn25 ti | g(n) = 1 [wo(n) + 1] wo (x') dn' JET-8V+SW)dt=0 ment sun un forces vent 37 - q (37)=0 ocalis (your and Baruan) - 2007 7 = 20 (COSWEADER WAT 95+n = e- 54, nT