((x) - mn'x + mfx 9  $U(X) = m\omega^{2}X + m\beta x^{\frac{3}{2}} = 0$   $U_{m}(X_{0}) = \frac{m\omega^{2}(-\omega^{2})}{\beta^{2}} + \frac{m\beta}{4} = 0$  $V(w' + \beta x') = 0 = \frac{m\omega''}{9\beta}$   $\chi' = -\frac{\omega'}{\beta}$   $V_0 = \frac{1}{3} \int_{\frac{\pi}{M}}^{\frac{\pi}{M}} \frac{dx}{dx} = -\frac{\pi m\beta}{2\pi} \int_{\frac{\pi$ = -2 52m m b) # x'dx = 150 JE 2 (June ) 5 Cl du = 100 JE 2 (June ) 5 Cl du = 11 0 JE 2 - 4 JE J 2 4 JE -2 3/2 (1-4) -1/2 du = = 12 E 45 37 = -25 Em m B E 95 37 = -3 BET 2 m 25 mw 5 8 m w 5 37 = -3 BET 2 m 25 m w 5 37 = -3 BET 2 m w 5 m w 5 37 = -3 BET 2 m w 5 ST= - 3/7BE (2) U(x) = 66(erax - 2/eax) - Veax = 6(1-2ex) - Veax  $U(x) = U_0 \left( \frac{-2ae^{ax'} zax}{-2ae^{ax} - (1-2e^{ax}) 2ae^{2ax}} \right) - Vae^{ax} = 0$   $U(x) = U_0 \left( \frac{-2ae^{ax'} - 2ae^{2ax}}{-2ae^{2ax} + 9ae^{3ax}} \right) - Vae^{ax} = 0$   $U(x) = U_0 \left( \frac{-2ae^{ax'} - 2ae^{2ax}}{-2ae^{2ax} + 9ae^{3ax}} \right) - Vae^{ax} = 0$ (1) 22(e=e) - Vae = C 26 -1 = Veax

260 = - 1/pax 260(ear-1)=Vesax  $2(e^{ax}-y)=U_0 e^{3ax}=0$   $e^{ax} = 1$  = 1 = -lb p2 - 1/ E>>- U- FARRING APURINGARIA ST = - JEM DE SUE OF LE-UN'N = - JEMV DE SE SE-UN (1-10") = - \( \int V \) \( \frac{e^{2ax}}{(\xi e^{2ay} + 2460^{ax} - 1/3)'\h = - \( \sim \text{Im} \V \) \( \) OF STE (200 - 4)/2 = - SINVOE STE (2004 (5)2--45-45) 1/2 = - JIM DE JUE (Cax + 45)2 - ( Elo + 45) 1/2

Mon = 16- a/4/" a>0 Clas= E-a/x/"+6 : 16-E E==110  $U = \frac{\partial x}{\partial x} \int \frac{dx}{\partial x} = \frac{\sqrt{2m}}{\sqrt{a|x|^n - \epsilon}} = 0$   $U = \frac{a|x|^n}{\epsilon} x = \sqrt{\frac{\epsilon}{a}} \sqrt{a}$ du = & n x x = & n & u sa vud = most u si  $\frac{\partial \mathcal{L}}{\partial \mathcal{E}} \int_{\mathcal{A}} \frac{\partial \mathcal{U}}{\partial u} = \frac{1}{n} \int_{\mathcal{A}} \frac{\partial \mathcal{U}}{$ Mpu n=2 T(E)~ E @ Beta 4-4us C NEKYMONNOG GUJTALA NE CROJURIS Tolog(E) - les rergen Pergresar He Esisquia T.k agu n=2 centerpan pacaguna u nocuraro Cro resulus (1(x) = mw (x2-a2)2 noumereurs (1)  $U(x) = \frac{m\omega^2}{S\alpha^2} (2(x^2 - \alpha^2) 2x)$ | X = ±a | X=0 1-apola T X=0 - reakcupign Elm  $\xi > 0$ , to gleeneaue peinistes

1)  $\xi = m_{\tilde{k}}^{2}$  | Paznow quinimone

2)  $Q_{\tilde{k}}^{C} = m_{\tilde{k}}^{2}$  | Paznow quinimone

ghaziman X= = a - Persuryus

(Ma-x) = (Mas · Masx + Masx ;  $(1/a) = \frac{m\omega^2}{2a^2} \left( x^3 - a^2 x \right)^2 = \frac{m\omega^2}{20^2} \left( \frac{3}{3} x^2 - a^2 \right) = \frac{m\omega^2}{20^2} \cdot 2\alpha^2 = m\omega^2$ U(a \*x) = mw' x 2 - Fapreonureuni ocujupus rop (3)  $U(x) = U(0) + U(0)x + \frac{U(0)}{2}x^2 = \frac{mw^2a^2}{8} - \frac{mw^2}{4}x^2$  $(1/0) = \frac{m\omega^2}{2n^2}(-a^2) = -\frac{m\omega^2}{2}$  $T = \sqrt{2m} \int \frac{dx}{(\xi + \frac{mw^2}{4x^2} - \frac{mw^2}{8})^{1/2}} = \sqrt{2m} \int \frac{dx}{(\frac{mw^2}{4x^2} - \xi)^{1/2}} dx$ [= mna2 € Jim Je dx = Jim Je du (u-1)/2 € J2Ju/mw')/1/(u-1)/2 €  $\frac{m\omega^2}{qE} x = U \qquad x = SU \left(\frac{qE}{m\omega^2}\right)^{1/2}$ MW 2xdx=d4 = 154/mw2/1/2  $=\frac{1}{\omega}\int \frac{du}{((u-\frac{1}{2})^2-\frac{1}{4})^{2}} = \frac{1}{\omega}\ln|u-\frac{1}{2}| + \sqrt{(u-\frac{1}{2})^2-\frac{1}{4}}$ 

= To arecosh (2) | = To arecosh (X) Mearn, laler garace reorspiquement, us xooquequem Egget zagalarou Torraque rolpora a zalucero est l'm, поэтому хээрэ не будея равиим г ((x+a) = ((a) + ((a) x + ((a) x + ((a) x) + ((a) x) = (a) x = P-yew Kellana, 19370 py nyrus facinaquisis 2-yo impaling  $\delta I = \frac{\int_{Z} m}{2} \frac{\int_{Z} m \omega^{2} x^{3}}{\left(\frac{E - m \omega^{2} x^{2}}{2}\right)^{1} n}$  $\int \frac{|mw^2x^3|^2 dx}{2a} |E - \frac{mw^2y^2}{2}|_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^4}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2w^2}{4a^2 \sqrt{E}} \int \frac{y^6 dx}{1 - \frac{mw^2}{25} x^2} |_{yk} = 2 \frac{m^2}{25} \frac{m^2}{25} \frac{m^2}{25} \frac{m^2}{2$ = \frac{2m'w''}{4a'\ta'}\frac{7\ta'}{mw'}\frac{7\ta'}{\lambda'\ta'}\frac{7\ta'}{\lambda'\ta'}\frac{7\ta'}{\lambda'\ta'}\frac{\frac{7\ta'}{\ta'}}{\lambda''\ta'}\frac{5\ta'}{\ta''\ta''}\frac{7\ta''}{\ta''\ta''}\frac{5\ta''}{\ta''\ta''}\frac{5\ta''}{\ta''\ta''\ta''}\frac{5\ta''}{\ta''\ta''\ta''}\frac{5\ta''}{\ta''\ta''\ta''}\frac{5\ta'''}{\ta'''\ta''\ta''\ta''\ = m2w4 (2E) 3/2 B(212) = m2w 2 2 E SE SP = 4a2 m35m 27 76 ...  $\frac{3\sqrt{2}}{5\sqrt{2}} = \frac{5\sqrt{2}}{5\sqrt{2}} = \frac{5\sqrt{2}}{5\sqrt{2}} = \frac{5\sqrt{2}}{76}$   $\frac{5\sqrt{2}}{5\sqrt{2}} = \frac{5\sqrt{2}}{76} = \frac{5\sqrt{2}}{76}$   $\frac{5\sqrt{2}}{5\sqrt{2}} = \frac{5\sqrt{2}}{76} = \frac{5\sqrt{2}}{76} = \frac{5\sqrt{2}}{76}$   $\frac{5\sqrt{2}}{76} = \frac{5\sqrt{2}}{76} = \frac{5\sqrt$