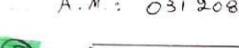
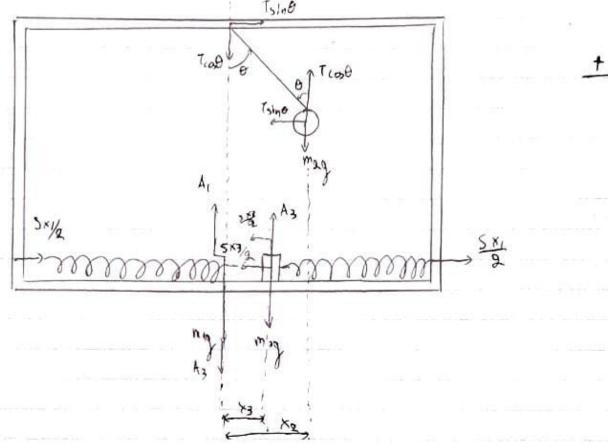
Ovoquatenurupo: Indiano Toarindos Ovoqua Marpós: Basiteros

A.M : 03120803





a)
$$\int 10 z_0 = 6 \omega \mu = 3$$
: $\frac{5}{5} x_3 = -\frac{5}{5} \frac{x_3}{2} = \frac{5}{9} \frac{x_3}{2} = \frac{$

$$E = \frac{1}{2} \cos(\omega t + \mu) \Rightarrow \frac{1}{2} = -\frac{1}{2} \sin(\omega t + \mu) \Rightarrow \frac{1}{2} = -\frac{1}{2} \sin^2(\cos(\omega t + \mu))$$

$$\frac{1}{2} \cos(\omega t + \mu) \Rightarrow \frac{1}{2} \sin(\omega t + \mu) \Rightarrow \frac{1}{2} \sin(\omega t + \mu) \Rightarrow \frac{1}{2} \sin(\omega t + \mu) \Rightarrow \frac{1}{2} \cos(\omega t + \mu)$$

$$\frac{1}{2} \cos(\omega t + \mu) \Rightarrow \frac{1}{2} \cos(\omega t + \mu$$

x, = - Awa coslutty/

$$\dot{U}(x) = -\frac{5ABx^4 - 5Ax^{10} + 6Ax^{10}}{(B+x^6)^2} = \frac{Ax^{10} - 5ABx^4}{(B+x^6)^2}$$

$$U(x_0) = 0 = A \times_0^4 (x_0^6 - 508) = 0 \xrightarrow{x_0>0} \times_0^6 = 58 \times_0 = \sqrt{58}$$

$$U(x) = 10AB \times 10A \times 10A \times 15 - 20AB^{2} \times 3 - 20AB^{2} \times 9 - 12A \times 15 - 60AB^{2}$$

$$(B + x^{6})^{3}$$

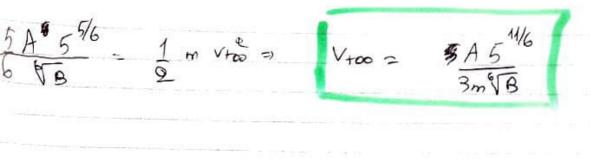
=)
$$\ddot{U}(x) = \frac{50ABx^5 - 9Ax^{15} - 90AB^2x^3}{(8+x^6)^3}$$

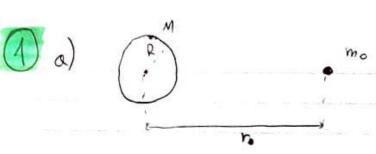
$$\ddot{U}(6\sqrt{58}) = 250AB^2\sqrt{5B} - 50AB^2\sqrt{58} - 20AB^2\sqrt{5B}$$
(6B)3

$$\ddot{O}(6\sqrt{5}B) = 180 + B^2 \sqrt{5}B = \frac{30 + \sqrt{5}B}{36B} > 0 \Rightarrow n 100pponia sival 63 B3 = 36B = 6082a0hs$$

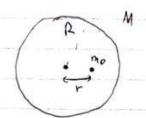
$$\int_{A} \int_{A} \int_{$$

$$\begin{cases} \begin{cases} A\Delta E \text{ and } zo \text{ Ko ozo teo}: \\ Y'(K_0) + U(K_0) = k_{+\infty} + y_{+\infty}^2 \Rightarrow \frac{1}{2} \text{ m.} (2 Y_0)^2 + \frac{A5^{5/6}}{6\sqrt{8}} = \frac{1}{2} \text{ m.} Y_{+\infty}^2 \Rightarrow \frac{1}{2} \text{ m.} (2 Y_0)^2 + \frac{A5^{5/6}}{6\sqrt{8}} = \frac{1}{2} \text{ m.} Y_{+\infty}^2 \Rightarrow \frac{1}{2} \text{ m.} Y_{+\infty}^2$$





$$F_1(v) = -\frac{GM \cdot m_0}{v^2}, \quad r \geqslant R$$



Fg(r) = 0 (years sival 620 sowtapisó ins spaipas, anó unboron), r+ co, R)