period To = 211/8 osalwamia

Sa oporou vazdula:

10= 70/R : B= 12 II. r. M vardule: M=1,827.10 kg/ms

voda: N= 8,9-10-4

undel dobtion DP+DE=const $\frac{d\theta}{dt} = \pm \sqrt{\frac{29}{e}} (\cos\theta - \cos\theta_0)$ T= 4 / 2g Spost - costo do

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$$6 \times 15 = 25$$

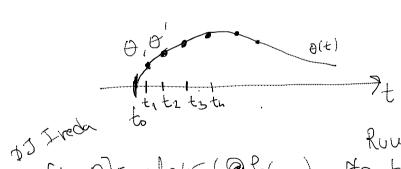
$$6 \times 15 = 7 = 25$$

$$T = 2\pi$$

$$\frac{15}{6.8} = \frac{15}{15} = \frac{1$$

(*)
$$L=0.5$$
, $T=3.51$
 $T=2\pi\sqrt{\frac{2}{3}} \Rightarrow Q=4\pi^2\frac{\ell}{T^2} = 1.6022 \text{ m/s}^2$

T=12S
$$T = 2\pi \sqrt{\frac{6}{9}} = 1 = 35,7826 \text{ m}$$





(t, 0)= ode45 (@f(-), [to, tn], [60]

$$\frac{d^2 \theta}{dt^2} = -\frac{9}{6} \sin \theta \in$$

$$x_{1}(t) = \Theta(t)$$

$$x_{2}(t) = x_{1}(t) = \Theta'(t)$$

$$2c_{1}(t) = \Theta(t)$$

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$$2c_{2}(t) = \Theta(t)$$

$$2c_{3}(t) = \Theta(t)$$

$$2c_{4}(t) = \Theta(t)$$

$$2c_{4}(t) = \Theta(t)$$

$$2c_{5}(t) =$$

$$\begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_2 \\ -9/8 = 1/(\kappa_2) \end{bmatrix}$$

$$x = \begin{bmatrix} x_i \\ x_i \end{bmatrix}$$

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$$\frac{d^2\theta}{dt^2} = -\frac{b}{m} \cdot \frac{d\theta}{dt} - \frac{9}{e} \sin\theta \leftarrow$$

$$x_1(t) = \Theta(t)$$

$$x_2(t) = x_1'(t) = \theta'(t)$$

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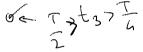
$$x_1(t) = x_1'(t) = \theta'(t)$$

$$x_2(t) = x_1'(t) = \theta'(t)$$

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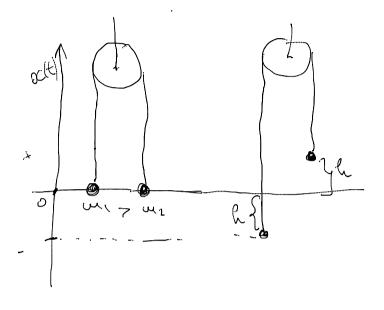






integral (f.a.e)

Deta su 2 tega masa mi i mez medisobro
povetana kanapom zamemastine tezme okačena
preko jednog tobra (zamemastine tezme).
Odredir jednacim kvetanja tegara.



$$\Delta P = u g h$$

$$\Delta P = u g h$$

$$\Delta P = u g g x(t) + u g g \cdot s c(t)$$

$$= -g s c(t) (u_1 - u_2)$$

$$\Delta K = \frac{1}{2} u g \cdot U^2 \qquad U_1 = U_2$$

$$\Delta K = \frac{1}{2} u_1 \cdot U^2 + \frac{1}{2} u_2 U^2$$

$$= \frac{1}{2} u_1 \left(\frac{dx}{dt}\right)^2 + \frac{1}{2} u_2 \left(\frac{dx}{dt}\right)^2$$

$$= \frac{1}{2} \left(\frac{dx}{dt}\right)^2 \left(\frac{dx}{dt}\right)^2 \left(\frac{dx}{dt}\right)^2$$

$$\Delta P + \Delta E = coust$$

$$\frac{1}{2} \left(\frac{dx}{dt} \right)^2 \left(\frac{dx}{dt} \right)^2$$

$$\frac{dx}{dt} = \sqrt{\frac{2g(m_1 - m_2)}{m_1 + m_2}} \cdot \sqrt{x}$$

3 DJ sa ratou prom.

$$2\sqrt{x(t)} = \sqrt{\frac{1}{2}}$$

$$2\sqrt{x(t)} = \frac{1}{2} \frac{2g(m_1 - m_2)}{1 + 2}$$

$$2\sqrt{x} \left| \frac{t}{0} \right| = 2\sqrt{x(t)} - 2\sqrt{x(0)}$$