Jasnema

$$\frac{1-1}{m_{1}V_{10} + m_{2}V_{0}} = \int_{0}^{m_{1}V_{1}} \frac{1}{m_{2}V_{2}} \frac{1}{m_{2}V_{2}} \frac{1}{m_{2}V_{1}} \frac{1}{m_{2}V_{2}} \frac$$

$$1-2$$
 $\overrightarrow{V} = \overrightarrow{U} + \overrightarrow{V}$

$$\frac{mV_0^{12}}{2} = \begin{cases} \frac{mV_{kl}^{12}}{2} & \text{npu Ayy} \\ \frac{mV_{kl}^{12}}{2} & \text{f Eg npu Myy} \\ Eg & \text{npu AHyy} \end{cases}$$

$$m\vec{V_k} - m\vec{V_o} = \vec{F}\Delta t$$

 $m\vec{V_k} - m\vec{V_o} = \vec{F}\Delta t$

$$\frac{1-3}{9E_0 + \frac{m_0V_0^2}{2} = \frac{m_0V_1^2}{2} + \frac{m_2V_2^2}{2}}$$

$$E_g = \frac{\eta m V_0^2}{2}$$

Saburemen

dL2 2 MZ

MzzFzR

Teopera Marinepa:

In = Icz + maz

bor or zayou

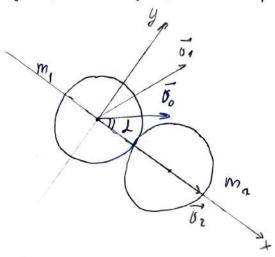
Lz = Izw

Lz zmVh (nown. yh)

En 2 F2 w2

Ynning I = 0,5 m R²
Wap I = 9 4 m R²
Gepniem I = 1/2

Baryura DB. Mariola Mapuna.



m1, m2, 00, 2; A44

52x = m, (0, ws 4 - 51x)

Sanon coxpaneme umproca

npolym.

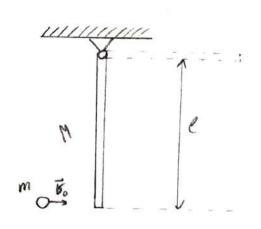
my 50 cos 2 = my 51x + my 51x my 50 sin 2 my 51y

$$S_1 = \sqrt{S_{1x}^2 + S_{1y}^2} \qquad S_2 = \sqrt{S_{2x}^2}$$

3 anon coxpanence meprin

$$\frac{m_1 v_0^2}{2} = \frac{m_1 v_1^2}{2} + \frac{m_1 v_1^2}{2}$$

m, 50 = m, 5, 7 + m, 52



Moner unnyther mapine,

Мошент шитрина стерпии:

Banon coxpanence novema uninguica:

Запон сохранения эперии после удара:

$$\frac{Tozwo^2}{2} = Mg\frac{e}{2}$$

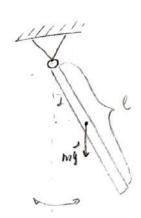
$$W_0 = \sqrt{\frac{Mge}{Toz}}$$

No
$$\Gamma$$
 Useurepa! $I_{02} = I_{c2} + M(\frac{e}{2})^2$

3 anon coxpanence meprun

$$\frac{m v_0^2}{2} = \frac{m o_n^2}{2} + \frac{T_{02} w_0^2}{2}$$

Macusla Mapuna. UY7-236. 3 angura 23.



gappenenaum yp-1

w,T

& aryxamen

$$I_{\frac{2}{4}} = \frac{m\ell^{2}}{12} + m\left(\frac{\ell}{2}\right)^{2}$$

$$I_{\frac{2}{4}} = m\left(\frac{\ell^{2}}{12} + \frac{\ell^{2}}{4}\right)$$

$$I_{\frac{2}{4}} = \frac{m\ell^{2}}{3}$$

$$M = mg\frac{\ell}{3}$$

sind≈1

$$\frac{x^{2}}{2} = \frac{x^{3}}{2} = 0 | x^{6}$$

$$\frac{1}{2} + \frac{39}{2} = 0 | x^{6}$$

$$\frac{1}{2} + \frac{39}{2} = 0 | x^{6}$$

$$10^{2} = \frac{39}{20}$$
 $10 = \sqrt{\frac{39}{10}}$
 $10 = \sqrt{\frac{39}{10}}$
 $10 = \sqrt{\frac{20}{39}}$

w, K

$$\xi_{2} = H \cos(wt - kx) + \cos(wt - kx + ke))^{2}$$

 $\xi_{3} = \xi_{1} + \xi_{2} = A (\cos(wt - kx) + \cos(wt - kx + ke))^{2}$

$$\xi = \xi_1 + \xi_2 = A \left(\cos \left(w t - h x - w t - h x - w t + k x - k e \right)$$

$$= 2A \left(\cos \frac{w t - k x + w t - h x + k e}{2} \cdot \cos \frac{w t - h x - w t + k x - k e}{2} \right)$$

$$\frac{k\ell}{2} = 2\pi n, n = 0,1,2,...$$