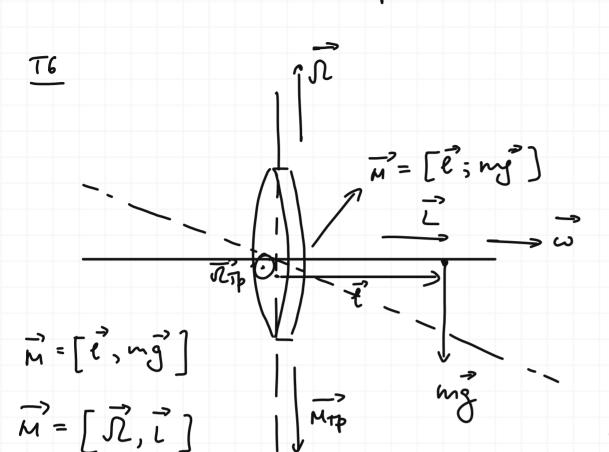
## Hegenu 8.

nponstonance glusseme Thégoro tena. Papocuona.



l = 120 MM = 0, 120 M m = 306 r = 0,360 W  $DA = 10^{\circ}$ 

$$\frac{-1}{MTP} = \left[ \mathcal{N}_{TP}, L \right] ; MTP = \mathcal{N}_{TP} L ; \mathcal{N}_{TP} = \frac{MTP}{L} = \frac{\phi d}{2\pi} \cdot \mathcal{N}$$

$$MT_p = \frac{0d}{2\pi} \cdot mgl \cdot k = \frac{0d}{2\pi} \cdot mgl = \frac{10}{360} \cdot 0,306.10.0,120 = 0,0102$$

$$\frac{77}{m}, M, X$$

$$\frac{1}{n}$$

 $\omega \rightarrow \frac{1}{2}\omega$   $\frac{dL}{dt} = M + Mm$  [X;L] = Mny

na 
$$\tau$$
:  $\frac{\partial L_{\tau}}{\partial t} = -M_{mg}$ ;  $0 - L_{\tau}(t) = -M_{mg}t$ ;  $L_{\tau}(t) = \Omega L t$ 

Fig. 1: 
$$\frac{dl_n}{dt} = -M$$
 ;  $L_n(t) = L_0 - Mt$  ;  $L_n(t) = L_0$ 

$$\Omega(L_{6}-M_{+}) = mgx; \frac{d\psi}{dt} = \frac{mgx}{l_{6}-mt};$$

$$d\psi = \frac{mgx}{M} \cdot \frac{\frac{K_{6}}{M} d(\frac{M}{l_{6}t})}{1-\frac{m}{l_{6}t}} = -\frac{mgx}{M} \cdot \frac{d(1-\frac{M}{l_{6}t})}{1-\frac{M}{l_{6}t}}$$

$$\psi = -\frac{mgx}{M} |I_{1}| |1-\frac{M}{K_{6}} \cdot \frac{K_{6}}{2M}| = \frac{m}{M} gx \ln 2$$

$$\frac{1}{\omega_{1}} = \frac{1}{\omega_{1}} =$$

$$\vec{\omega} = \vec{\omega}_{i_1} + \vec{\omega}_{j_2}$$

$$\vec{L}_{e} = [\vec{\omega}; \vec{L}] = [\vec{\omega}, \vec{L}_{e}] + [\vec{\omega}, \vec{L}_{e}]$$

$$\vec{L}_{e} = [\vec{J}_{1} \omega_{L} \vec{n} + \vec{J}_{1} \omega_{1}^{2} \vec{L}] = [\vec{J}_{1} \omega_{L} \vec{n}]$$

$$\vec{L}_{e} = [\vec{J}_{1} \omega_{L} \vec{n} + \vec{J}_{1} \omega_{1}^{2} \vec{L}] = [\vec{J}_{1} = [\vec{J}_{1} \omega_{L} \vec{n}]]$$

$$\vec{L}_{e} = [\vec{J}_{1} \omega_{L} \vec{n} + \vec{J}_{1} \omega_{1}^{2} \vec{L}] = [\vec{J}_{1} = [\vec{J}_{1} \omega_{L} \vec{n}]]$$

$$= [\vec{J}_{1} \omega_{L} \omega_{L} \vec{n}] = [\vec{J}_{2} \omega_{L} \vec{n}]$$

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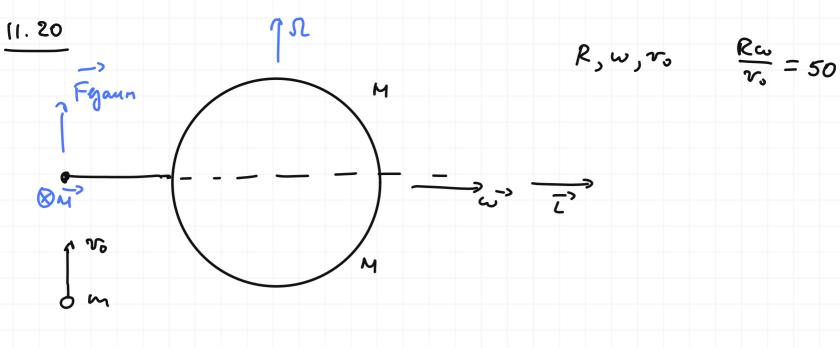
$$= [\vec{J}_{2} \omega_{L} \omega_{L} \vec{n}] = [\vec{J}_{2} \omega_{L} \vec{n}]$$

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$$N \rightarrow max$$
, morga  $\overline{M}^2 \parallel 3emne$ 

$$|M| = Fl = F = \frac{M}{e}$$



$$\omega = \omega_0$$
 (nem momennos eur, nom. nemen  $\delta h \omega$ )

$$u = \frac{m}{m} v_0$$

$$m v_0 R = \frac{1}{5} M R^3 \Lambda$$

$$mr_0^2 = N \frac{m^2}{m^2} r_0^2 + \frac{2}{5} M R^2 \Omega^2$$

$$N = \frac{5mv_0}{MR}$$