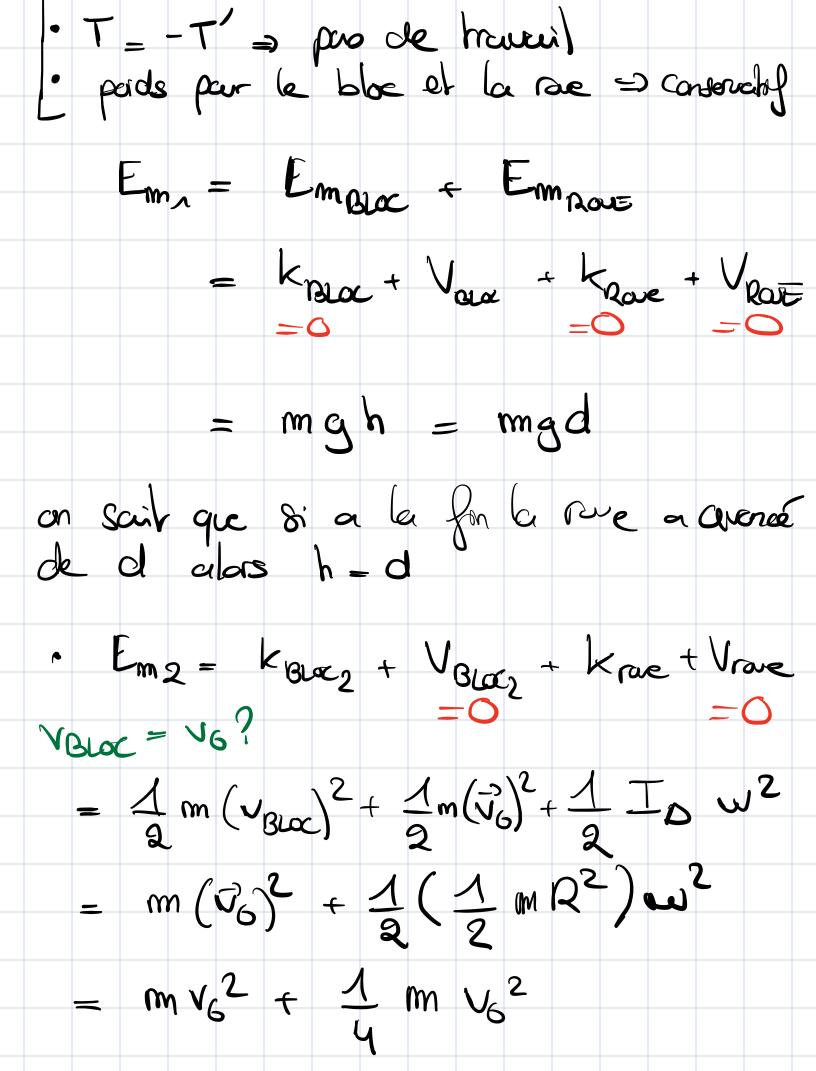
Question conceptuelle moment of metre I, = are - A I2 => are > C I3 => are - D In = are = B

Exercice 1 1 % x(0) -m O de Epp -Rave $\sum_{i} \vec{F} = m\vec{a}$ $= m\vec{s} = -mg +$ $\sum \bar{F} = m \bar{a}$ ⇒ Sm3 = N-mg mx = -T-F Conservation de l'energie méconique.

• force de Brotherent + force de contract me havaillest pass (vitese du pent d'application)



$$\frac{V_{G}}{R}$$

$$= \frac{S}{4} m (V_{G})^{2}$$

$$= \frac{S}{4} m (V_{G})^{2} = mgd$$

$$= \frac{V_{G}}{S} qd$$

$$\frac{d\vec{l}_{0}}{dt} = \frac{\vec{l}_{0}}{\vec{l}_{0}}$$

$$= \frac{\vec{l}_{0}}{\vec{l}_{0}} = \frac{\vec{l}_{0}}{\vec{l}_{0}} = \frac{\vec{l}_{0}}{\vec{l}_{0}}$$

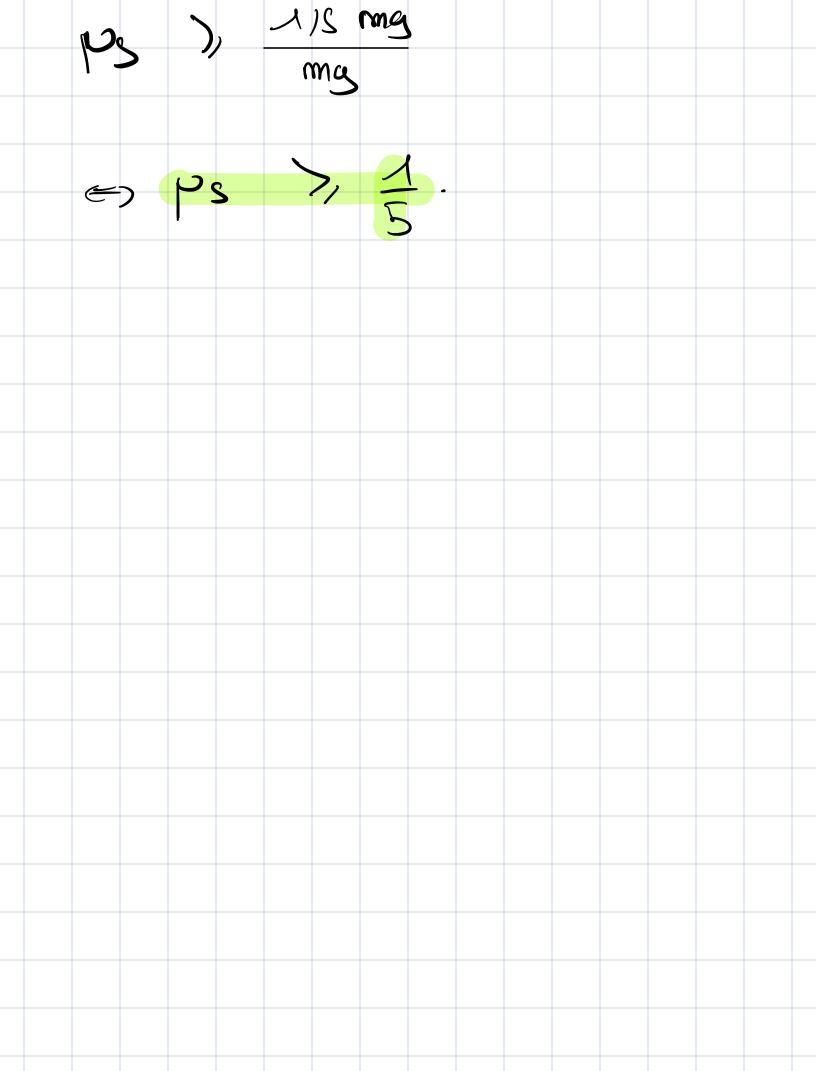
$$= \frac{\vec{l}_{0}}{\vec{l}_{0}} = \frac{\vec{l}_{0}}{\vec{l}_{0}}$$

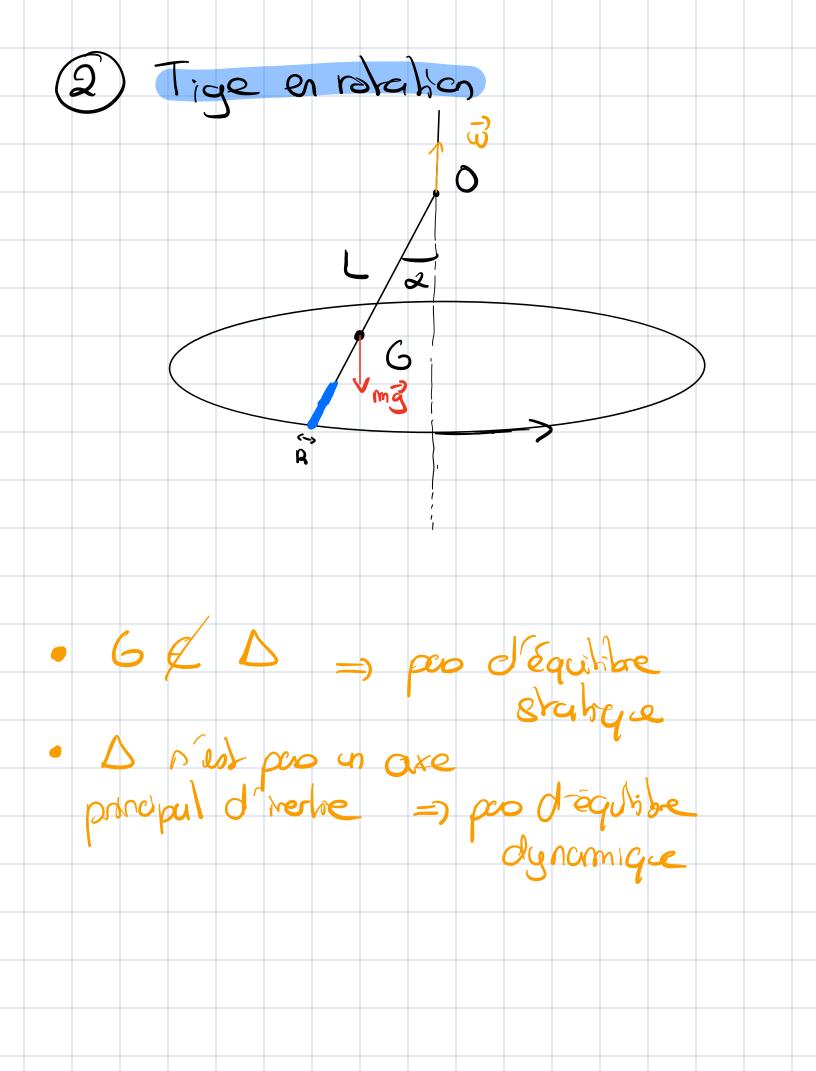
$$\ddot{x} = \frac{-2}{5}g$$

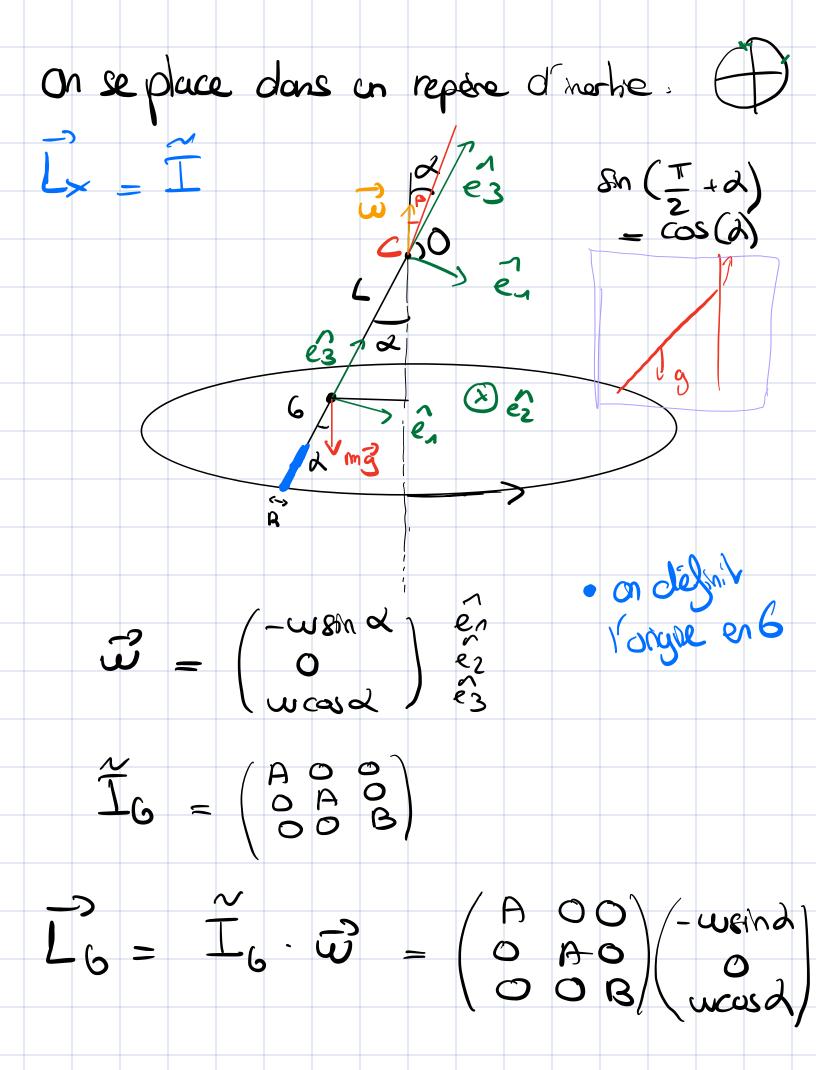
$$f = 2m\left(\frac{-2}{5}g\right) + mg$$

$$= -\frac{4}{5} \text{ mey} + \frac{5}{5} \text{ mey} = \frac{1}{5} \text{ mey}$$

$$T = m\left(\frac{2}{5}g\right) + mg = \frac{3}{5}mg.$$







On calcul le tenseur au point 6:

$$\frac{1}{16} = \frac{1}{12} \frac{112}{12} = 0$$

$$\frac{1}{12} \frac{$$

$$= \frac{\omega^2 \operatorname{gind} \operatorname{cosd} \Pi(-\frac{1}{\sqrt{2}}L^2 + \frac{1}{\sqrt{2}}\Omega^2) e_2^2}{\operatorname{IM}_6}$$

$$= \frac{1}{\sqrt{2}} \operatorname{GC} \Lambda + \frac{1}{\sqrt{2}} \operatorname{IM}_6 = \frac{1}{\sqrt{2}} \operatorname{IM}_6 + \frac{1}{\sqrt{2}} \operatorname{$$

Le prof a dir qu'en pouvoir dre que R=0 (per sentement négligé per ropport de

$$= \frac{1}{2} w^{2} \sin \alpha \cos \alpha M \left(-\frac{1}{12}\right) L = -\frac{1}{2} T \sin \beta$$

$$= \frac{1}{6} u^{2} \sin \alpha \cos \alpha M \frac{1}{6} L = T \sin \beta$$

$$= \frac{1}{6} \sin \alpha \cos \alpha M \frac{1}{6} L = \frac{1}{6} \sin \alpha \cos \alpha \cos \alpha M \frac{1}{6} L = \frac{1}{6} \cos \alpha \sin \alpha \cos \alpha \sin \alpha$$

$$= \frac{1}{6} u^{2} \cos \alpha M \frac{1}{6} L = \frac{1}{6} (\cos \alpha - \cos \alpha \cos \alpha)$$

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$$= \frac{1}{6} u^{2} \cos \alpha M \frac{1}{6} L = \frac{1}{6} (\cos \alpha - \cos \alpha \cos \alpha)$$

= Tcos0 - Tcord 8/10

$$= M_3 - \cot \left(\frac{L}{2} \operatorname{snd} M w^2\right)$$

$$= w^2 \operatorname{cosd} \frac{1}{6} L = g - \operatorname{cosd} \frac{L}{2} w^2$$

$$= w^2 \operatorname{cosd} L + \operatorname{cosd} 3 L w^2 = 6g$$

$$= w^2 \operatorname{cosd} L + \frac{1}{2} u^2$$

$$= u^2 \operatorname{cosd} L + \frac{1}{2} u^2$$

$$= u^2 \operatorname{cosd} L + \frac{1}{2} u^2$$

$$= u^2 \operatorname{cosd} L + \frac{1}{2} u^2$$

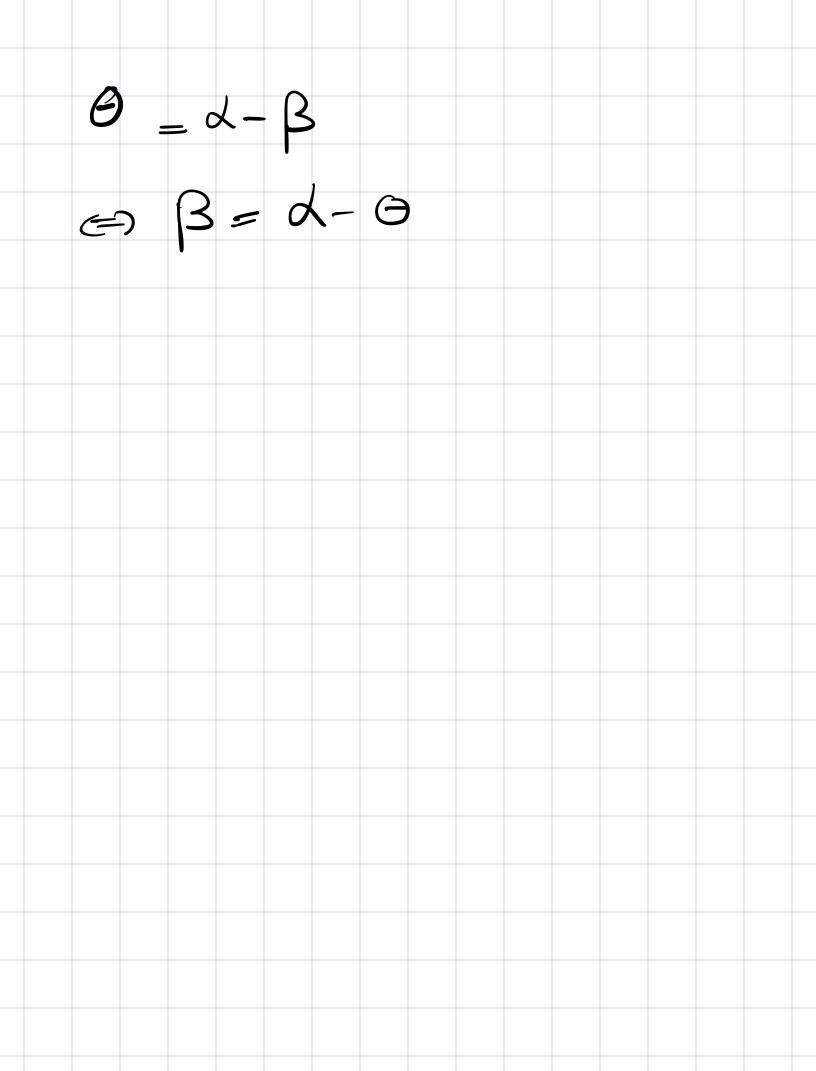


$$\sum \vec{F} = m\vec{a}$$

$$\Rightarrow m\vec{z} = T\cos\theta + Mg = 0$$

$$m\vec{z} = T\sin\theta = u^2 \left(\frac{L}{2}\sin d\right)m$$

$$R = \vec{z} = u^2 \left(\frac{L}{2}\sin d\right)$$





$$\frac{1}{12} \text{ ML}^{2} \left(-\frac{1}{12} + \frac{1}{12} \text{ MR}^{2} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ R}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} + \frac{1}{12} \text{ MI}^{2}\right) = \frac{1}{12} \text{ MI} \left(-\frac{1}{12} + \frac{1}{12} + \frac{1}{$$

$$= \frac{1}{2} = \frac{1}{2} \cos 2 \left(\frac{1}{2} + \frac{1}{2} \cos 2 \right)$$

$$= \frac{1}{2} \sin 2 \cos 2 \left(\frac{1}{2} + \frac{1}{2} \cos 2 \right)$$

$$= \frac{1}{2} \cos 2 \left(\frac{1}{2} + \frac{1}{2} \cos 2 \right)$$

$$= \frac{1}{2}g = \omega^2 \cos \left(-\frac{1}{12}L + \frac{1}{12}R^2\right)$$

$$= \frac{1}{2} = \frac{$$

$$= \frac{1}{2}g = w^2 \cos d - \frac{1}{12}L - \frac{w^2L}{4 + \cos d}$$

La hige n'est soumise qu'à son poids, qui est une force conservative.

L'évergre méconique est conservée.

$$= \frac{1}{2} m \left(V_G \right)^2 + \frac{1}{2} I_C w^2$$

O, on veut le retours our point C?

$$\frac{1}{2} \cos(\sqrt{3}) + \frac{1}{2} \frac{\Sigma_{0}}{\omega}$$

