

Prod | sur 
$$\overline{U}_{\theta}^2$$
: - m( $\theta^2 = -T + mg\cos\theta$  (a)  
sur  $\overline{U}_{\theta}^2$ : m( $\theta^2 = -mg\sin\theta$  (b)

$$m \frac{\partial (H \dot{\Theta}(H))}{\partial (H \dot{\Theta}(H)^2)} = - \frac{d}{dt} \left( - \frac{g}{dt} \cos \theta(H) \right)$$

$$= \sum_{i=0}^{\infty} \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{1}{2} \left( \frac{\partial^2 f}{\partial t} \right) \right]_{t=0}^{t} = \left[ \frac{\partial^2 f}{\partial t} \right]_{t=0}^{t} = \left[ \frac{\partial^2 f}{\partial t}$$

$$=) \cdot (\theta^2 = 2g \cos \theta - 2g + \frac{v_0^2}{e})$$

$$-2mg\cos\theta + 2mg - m\frac{v^2}{e} = -T + mg\cos\theta$$

$$= T = 3 \text{mgcos} \theta - 2 \text{mg} + \text{m} \frac{V^2}{\theta}$$

La corde seea toujours tendu si Test > 0 quand 0=T.

$$T(\theta=\pi)>0 \Rightarrow -3\text{ ong}-2\text{ ong}+\text{m}\frac{vo^2}{\rho}>0$$