Teta 26/5/2021 Mec. Classica:

$$\begin{cases} x = V_0 T \\ y = -\frac{1}{2} 8 T^2 \end{cases} \xrightarrow{1} \begin{cases} 100 = V_0 T \\ -0.1 = -\frac{1}{2} 10 T^2 \end{cases} \xrightarrow{1} \begin{cases} 100 = 2 \times 0.01 \end{cases}$$

Usando

$$v_{+}^{2} - v_{0}^{2} = 2a dn da = \frac{1}{2} \frac{v_{+}^{2} - v_{0}^{2}}{dn}$$

$$=\frac{1}{2}\left(\frac{33.3}{240}\right)^{2}$$

3) A força cuthipita é papard'ular à velocidade

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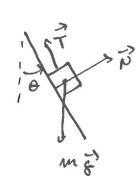
Volovdade:

$$v = i \hat{\ell}_1 + n \theta \hat{\ell}_0 = 1.2 \hat{\ell}_1 + 0.5 \times 3 \hat{\ell}_0$$

$$= 1.2 \hat{\ell}_1 + 1.5 \hat{\ell}_0$$

5) W(Pa) = AEm

a

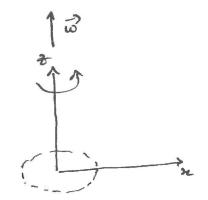


$$1 - T_1 \ln \theta + N \cos 20$$

$$1 - T \cos \theta - m + N \sin \theta = 0$$

Tane = mg
$$\int \frac{T}{\sqrt{3}/2} = \frac{120}{\sqrt{3}} = 69.3 \text{ N}$$
Tolue = m w² R
$$\int \frac{T}{\sqrt{3}/2} = \frac{120}{\sqrt{3}} = 69.3 \text{ N}$$
The sine = m w² R
$$\int \frac{T}{\sqrt{3}} = \frac{120}{\sqrt{3}} = 69.3 \text{ N}$$





Aul. un'ijuga:

a)
$$\vec{F}_{1}^{2} = -7U_{1} = -\frac{3U_{1}}{3u} \cdot -\frac{3U_{2}}{3v} \cdot -\frac{3U_{1}}{3v} \cdot \frac{2}{3v} \cdot \frac{2}{3v$$

- 5) Tem Energia potencial, logo shur.
- c) Postos de equil :

$$\begin{vmatrix} -2x + y & z & 3 \\ -4 - x & = 0 \end{vmatrix}$$

d) w (7, +7,) = 16c

$$\Rightarrow \int_{1}^{3} F_{\gamma} d\gamma = \int_{1}^{3} (-1-n) d\gamma = \int_{1}^{3} (-2) d\gamma = -2\gamma \Big|_{2}^{3} = -4N$$