$$\frac{-kv}{\lambda} \frac{-kv}{dt} \frac{ik}{k} \frac{ik}{i} \frac{i}{k} \frac{i}{$$

$$FLIND | Simo = \frac{1}{2} \cdot 4m \left(\omega l \cos \theta \right)^{2} + \frac{1}{2} \cdot 4 \cdot \frac{1}{3} m l^{2} \omega^{2}$$

$$\Rightarrow \omega^{2} = \frac{6g \sin \theta}{(3 \cos \theta + 1)l} = \frac{6 \sqrt{5}}{5} \frac{9}{2}.$$

$$V_{H} = \omega \cdot l = \sqrt{\frac{6 \sqrt{5}}{5}} \frac{9l}{5}$$

$$V_{T} = \sqrt{5} V_{H} = \sqrt{\frac{12 \sqrt{5}}{5}} \frac{9l}{5}$$

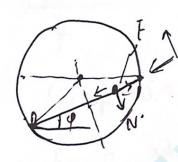
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tano =
$$\frac{2d-\sqrt{3}R}{3R}$$



$$V = Q \cdot \cos 30^{\circ}$$

$$F + Q \sin 30^{\circ} = \frac{Q}{g} a.$$

$$N\cdot\left(\frac{F_{2}}{2}R-x\right)=F\cdot\frac{1}{2}R.$$

$$\ddot{X} + \frac{\sqrt{3}}{R} x - 2g = 0$$

$$\chi = \frac{2\sqrt{5}R}{3} \left[1 - \cos \int \frac{\sqrt{5}R}{R} dt \right]$$

(1). Img.
$$2+(1-\cos\theta) = \frac{1}{2} \left[\frac{3}{2} mr^2 + \frac{1}{3} mr^2 + mr^2(5+4\cos\theta) \right] \vec{w}$$

$$w = \frac{2g(1-\cos\theta)}{r(\frac{4t}{2}+2\cos\theta)}$$

$$f(\frac{4t}{2}+2\cos\theta)$$

$$= 24r \vec{u} \times \vec{b} + \int_{\rho} \lambda d\rho \cdot w \vec{b} \cdot \rho$$

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$$\int_{0}^{a_{1}} - mg \ell h \cdot \theta = \frac{I \cdot 0}{L \cdot \frac{1}{2} M R}$$

121.

$$R \cdot f = \frac{1}{k} \cdot mR^{2} \cdot \left(\frac{\partial w}{\partial t}\right) = mR^{2} \cdot \frac{a_{1}}{k} = mRa_{1}$$

$$- f = \frac{AnG_{1}}{Ma_{1}} \quad ma_{1} + Ma_{2} = 0$$

$$a_{2} = a_{1} - he \cdot \ddot{o}$$

$$- Mg he \ddot{o} + \frac{M \cdot a_{1}h_{e}}{M + 2m} = I\ddot{o}$$

$$a_{1} = \frac{M \cdot a_{0}}{M + 2m}$$

$$m^{2}h^{2} \cdot 1 \stackrel{\sim}{a_{1}} = Mg he = 0$$

$$\left(\frac{1}{2}MR^2 - \frac{M^2hv^2}{2m+M}\right)\dot{\theta} + Mghc\theta = 0$$