1 Taavei, Januari Ivertyrousendi fuldanine 例如多量至一二岁的 I = [m2 dr kuna an ahtlane marrigaotis vandame pulka kui kalu vetalre $T = 2m \int_{0}^{2\pi} t^{2} dt = 2m \frac{t^{3}}{3}$ $= 2m \frac{t^{3}}{24}$ $= 2m \frac{t^{3}}{24}$ $= me^{2}$ enson of the property of the state of the property of the second

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$$v = \frac{1}{2} l \dot{\varphi}$$

$$T_{-} = \frac{1}{2} m \left(\frac{1}{4} e^{2} \dot{\varphi}^{2} \right) = \frac{1}{8} m l^{2} \dot{\varphi}^{2}$$

works wertsmannt on $I = \frac{1}{12} m l^{2}$

$$T_{-} = \frac{1}{2} I w^{2} = \frac{1}{2} \cdot \frac{1}{2} n l^{2} \dot{\varphi}^{2} = \frac{1}{24} m l^{2} \dot{\varphi}^{2}$$

$$T = \left(\frac{1}{24} + \frac{1}{8} \right) \left(m l^{2} \dot{\varphi}^{2} \right) = \frac{1}{6} m l^{2} \dot{\varphi}^{2}$$

laquage functions as

$$L = \frac{1}{6} m l^{2} \dot{\varphi}^{2} - \frac{1}{2} m g l rin(\varphi)$$

$$\frac{1}{3} l \left(\frac{1}{2} m l^{2} \dot{\varphi}^{2} \right) = \frac{1}{3} m l^{2} \dot{\varphi}$$

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$$\frac{1}{3} l \dot{\varphi}^{2} = -\frac{1}{2} g (us(\varphi))$$

(Berlitz)

labendame teire artne differentriaaliotherdi $\dot{\varphi} = -\frac{3}{5} \cdot \frac{5}{2} \cdot \cos(i\varphi)$ Hertificanoselli fraction $\omega \dot{q} = -\frac{3}{2} \frac{9}{2} \cos(q)$ 16 SAN] = I aga rellist teine astre ODE-de mille koolis ei opetatud ialierdeme verdance pulse ylevi beleve vogelie elle karntame tunis neridatud $\psi \dot{\varphi} = \frac{d}{dt} \left(\frac{\dot{\varphi}}{2} \right) = -\frac{\omega_0}{2} \frac{d}{dt} \left(\frac{\sin(\varphi)}{2} \right)$ societent. rantame $\frac{d}{dt}\left(\frac{\dot{\varphi}}{2}\right)^2 = -\frac{u\sigma^2}{2}\frac{d}{dt}\left(\operatorname{sur}(\varphi)\right)$ koventame notemad pooled 2 dt - ga ja saans (j2 = - wo sin(y) ig = - \ wo mu(c) (p = wo Jainer) on kinture vottand alternationalt $7\dot{q} = \int -\frac{3}{2} \frac{9}{2} \cos(4) dt$ lisailesameteri mira ei jordund vaeven @ Berlite sain politilesaunette naks midagi kinja