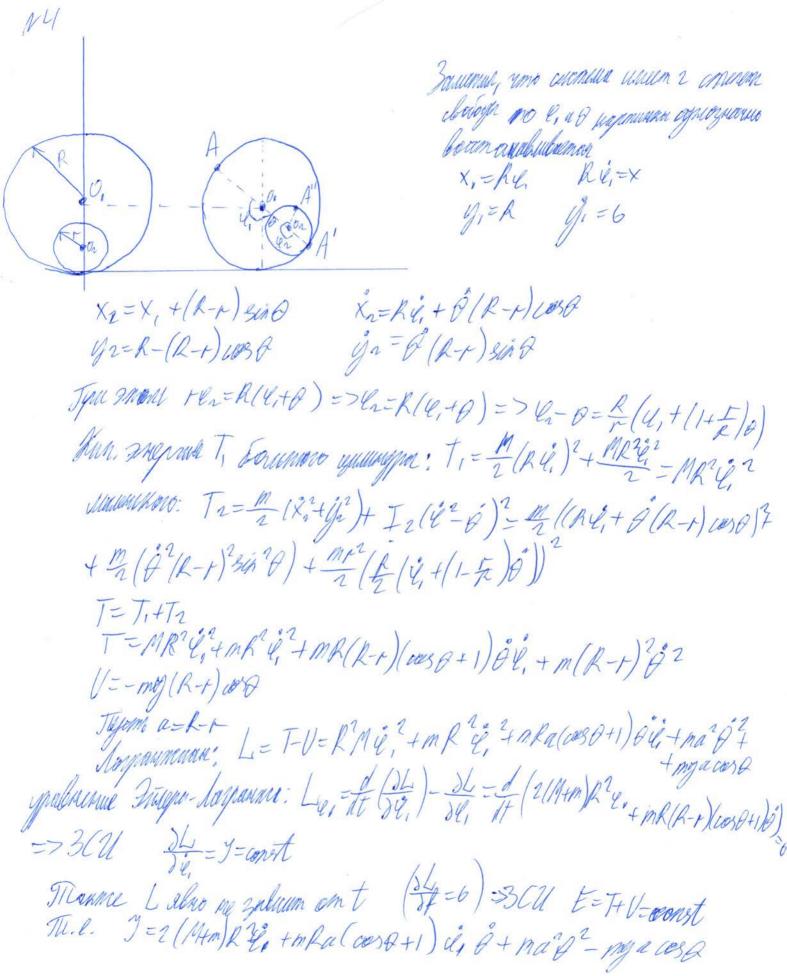


Tueso imenerien decetype: 2 odory. Kogrymanh: 电色管设施, 日本[一天] X= los o. o cose - (h+lsind) sin v. il X=(R+lsing)asse y= (R+C sing) sinco y = last. @ sine+(R+lsoid) case. i Z=-loss Z = lsing. T= = (x2+ y2+22) = = (l2 cos20. Q2 cose+(R+lsin) enex U--mgl cost -2 los 8. 8 ces 4 (R+lsin 8) sin 4. 4 + l2ces 8-82 sin 24+ (R+lsin 8) ces 4. 42+ +2 l ws 8. 8 (R+l sin 8) cose. ie sin e+ l? sin 8. 62 = = (l? 62 + (R+l sin 8) 2 = 2) L=T-V= Call 0°4 (R+lsand) 2°2 + mylcoso = 2 (lo 4 R 2°4 + 2 Alsind 64 line 63) +mgl ces f Ly= It (34) - 34 - It (24(R+18MB) 20 m) =6 $\frac{3L}{5\ell \ell} = 0 \Rightarrow \text{leuralmen 3CU:} \quad m\ell (h + l \sin \theta)^2 = C \quad \ell = \frac{C}{m(R + l \sin \theta)^2}$ $L\theta = \int_{\mathcal{T}} \left(\frac{3L}{3\theta}\right) - \frac{3L}{3\theta} = \int_{\mathcal{T}} \left(m\ell^2 \cdot \theta\right) - mRl\cos \theta \cdot \ell^2 - \frac{m\ell^2 r \sin \theta \cos \theta}{2\ell} \cdot \ell^2 + \frac{m\ell^2 r \cos \theta}{2\ell} \cdot \ell^2 +$ + mgl 34in 8 = 6 ml'i-mhloust i2-ml2sind ocust i2 + mgl sind=6 m R cos do . 42+ l sin de cos do . 42- g sin do =6 $\dot{\ell} = \frac{g \sin \theta_0}{R \cos \theta_0 + l \cos \theta_0 \sin \theta_0}$ $D = l^2 \sin \theta_0 \cos^2 \theta_0 + 4Rg \cos \theta_0 \sin \theta_0$ = 1 long + 1 (R+land) = ma (R+land) - mylous & = censt m l. f. + Tom(K+lsing) - mylcus & = conol Vapp (B)

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alt = Esinut, Eso Lio = d (3L) - 3L = 6 = d (m Ra(ces 0+1) e; +2 marg) - 3L -= mka (coso +1)ii, - mka i, sin 0.0 + 2 mi 0 + mka sin 8 i, 6 + mga sin 0=0 Smorum, $k (\cos \theta + 1) \dot{\ell}_{i} + 2a \dot{\theta} + 6 \sin \theta = 6$ $W_{3} 3l l \dot{\ell}_{i} = \frac{9 - mRa(\cos \theta + 1)\dot{\theta}}{2(m+1)R^{2}}$ Theyend Wo = 1(n+M)pr A= more Florgn &= Wo-A(asp+1)& E. = A (B 2ind-B (cos (+1)) f(coso+1) A/63 sind-02 (coso+1)) + g sind+1a6 =6 $\theta = -\omega \theta, \theta^{\frac{3}{2}} \in \mathcal{W}^{2} - \omega^{2} \theta^{\frac{3}{2}} = \omega^{2} (\mathcal{E}^{2} \theta^{2})$ 34 8-8 u as 821 E>6: -60°(-4AP+21)=-9 W= 10-4/M = 10-2 ma = g(M+m) = 12(R-+)M Though w= ± JIM-+IM