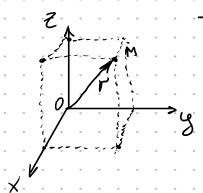
Monert weepywe

Branzerine Tena



Branjarenthoe gouxerne: wont

$$L = [r, p]$$

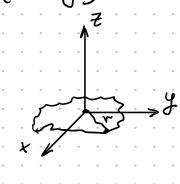
$$L = mr^2 \omega - ue ue er ung_{nece}$$

$$T = \sum_{i} m_i r_i^2 - ue ue r une py ur$$

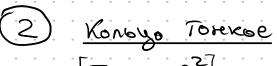
$$F = 1 T \omega^2 = L^2$$

$$I_A = I_C + Ma$$

$$I_x = M(y^2 + z^2)$$
, $I_y = M(x^2 + z^2)$, $I_z = M(x^2 + y^2)$

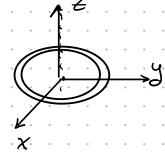


(1) CTEPXEND TONKUT



$$\begin{bmatrix} I_z = mR^2 \end{bmatrix}$$

$$\begin{bmatrix} I_x = I_y = \frac{Z}{Z} = \frac{R^2}{Z} \end{bmatrix}$$



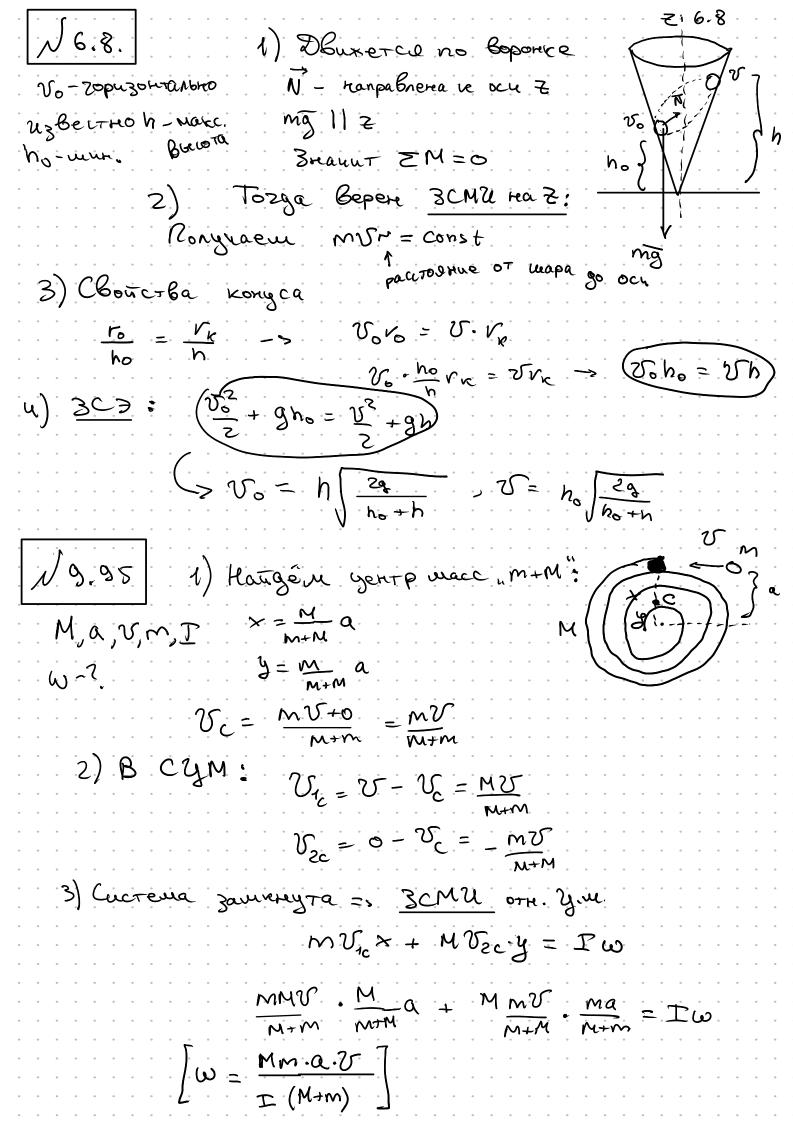
3) Duck Tolking:

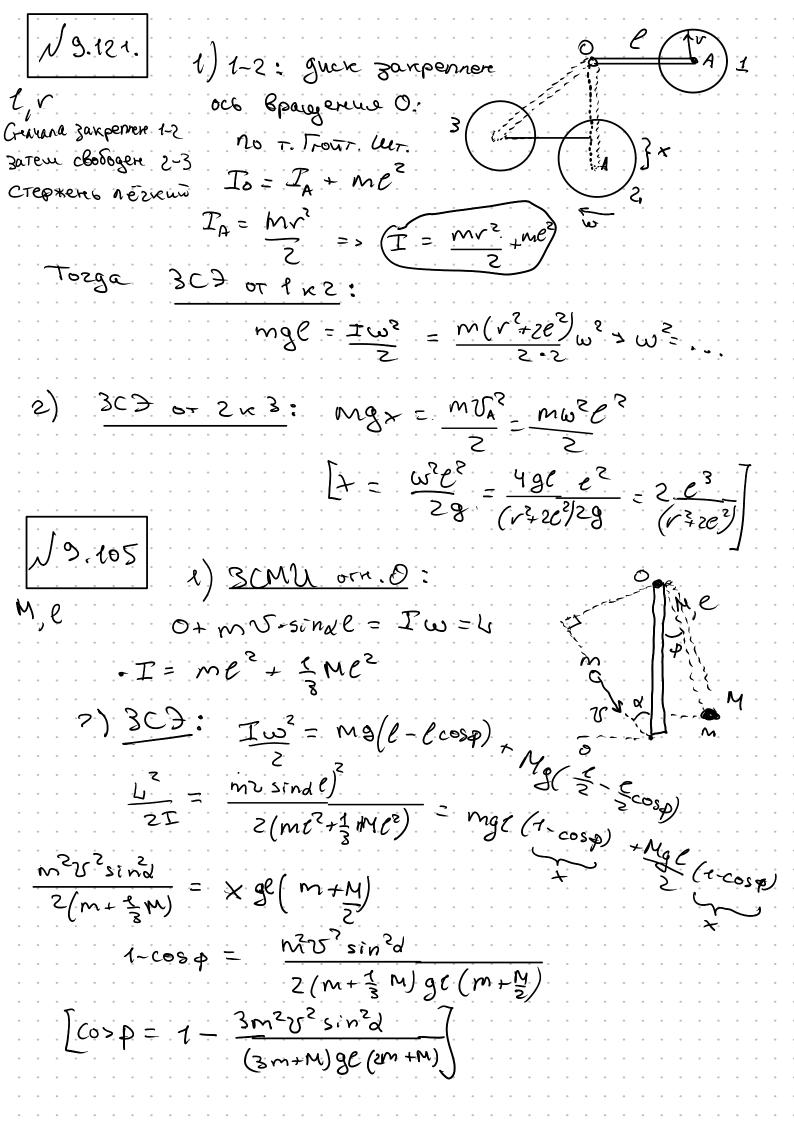
$$\frac{dm}{m} = \frac{ds}{s}$$

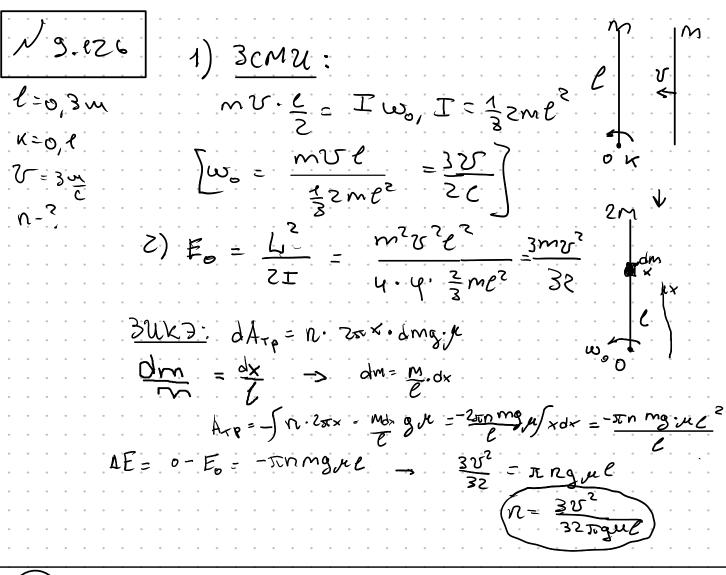
$$\frac{25T}{s} \frac{m}{s} \int r^3 dr = \frac{2m}{R^2} \frac{R^3}{4} = \frac{mF}{s}$$

$$\begin{bmatrix}
\Gamma_z = \frac{mR^2}{2}
\end{bmatrix} \quad \begin{bmatrix}
\Gamma_x = \Gamma_Q = \frac{T_z}{2} - \frac{mR^2}{4}
\end{bmatrix}$$

$$\begin{cases}
\frac{dr}{dr} = \frac{dr}{dr} = \frac{dr}{drR^2} + \frac{dr}{dr} = \frac{dr}{dr} \\
\frac{dr}{dr} = \frac{dr}{dr} = \frac{dr}{dr} = \frac{dr}{dr} \\
\frac{dr}{dr} = \frac{dr}{dr} = \frac{dr}{dr} = \frac{dr}{dr} \\
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\frac{dr}{dr} = \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} \\
\frac{dr}{dr} = \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} \\
\frac{dr}{dr} = \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} \\
\frac{dr}{dr} = \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} + \frac{dr}{dr} \\
\frac{dr}{dr} = \frac{dr}{dr} + \frac{dr$$







2) padreonie Grang goux. orn. Ar, Az: $I_{A_1} = I_{\pm} mR^2 = \frac{3}{2}mR^2$, $I_{Az} = I_{z} + mR^2 = 2mR^2$ $I_{A_1} : E_1 = M_{A_1} = mgRsink - NR - F_{pR}$ & $*E_1 = E_2 - buecze$ $I_{Az} \cdot E_z = M_{Az} = mgRsind + NR - F_{pR}$

3)
$$\varepsilon = \frac{d\omega}{dt} = \frac{d(\omega \cdot R)}{dt \cdot R} = \frac{dv}{dt \cdot R} = \frac{\alpha}{R} \rightarrow \alpha = \varepsilon R = \dots$$

Sind =
$$\frac{R}{2}$$
 = $\frac{13}{2}$, $\omega = \frac{V_1}{R}$ ($\frac{R}{2}$, $\frac{R}{2}$) $\frac{R}{2}$ \frac

$$mV_{6} \cdot \frac{3R}{7} = I_{A}\omega + mV_{R} \cdot R \cos \alpha$$

$$I_{A} = MR^{2} + \frac{2}{5}MR^{2}$$

 $=\frac{1}{5}MR^2$

G = dw = a

$$Na = Mg - K_0N, N = Mg$$
 $Na = Mg (1-K_0)$
 Mg

2)
$$I_{\varepsilon} = M$$
, $\varepsilon = \frac{a}{R}$

$$I_0 g(x-x_0) = -mgR + \kappa_0 mgR$$

$$K_0 = \frac{3}{3} > \frac{3}{10} = 2 ect 6 npockeano zvibarue $k_0 = \frac{3}{3}$$$

3) Dra k:
$$mg - kmg = ma$$
, $a = g(t-k) = \frac{7}{10}g$

$$mR^2$$
. $E = -mgR + kmgR$

$$E = \frac{89(K - \frac{1}{4})}{R} = \frac{29}{R}(\frac{3}{10} - \frac{1}{4})$$

$$(4) S = \frac{at^2}{2}, \quad \left[t = \sqrt{\frac{2S}{a}}\right]$$

$$\left[\frac{1}{4} = \frac{1}{2} + \frac$$

$$\mathcal{C} = \frac{1}{4} \mathcal{P} \mathcal{R} = \frac{1}{2} \mathcal{S} \qquad \Rightarrow \mathcal{S} - \mathcal{L} = \frac{G}{2} \mathcal{S}$$