Dinamika brutog tielu

$$|z| = \int (x^2 + y^2) dm = \int f r^2 dl = \int \int dc \int r^3 dr \int dc$$

$$|z| = \int \int_0^{2\pi} dc \int_0^R dc \int r^3 dr$$

Zadatak 2)

b) Adihonost: $X_{CH} = \frac{m_1 \times_1 + m_2 \times_2}{m_1 + m_2}$

1 = /1cm + 1/18+ + /2cm + /2st

Fadetak 3.)

2 mili

Ivagas - Mr2

EL= mv2 + Mv2 + 1 we

 $|_{\mathcal{Z}} = 2\pi \int_{0}^{R} \frac{(R^{2}-2^{2})^{2}}{4} dz = \frac{\pi f}{2} \int_{0}^{R} R^{4} - 2R^{2} f^{2} + 2^{4} dz$

a) I=? oko on hoja probazi broz srediste kuyle!

1 cm + m2 (R1+R2)2

 $\frac{m_1 R_1 + m_2 (2R_1 + R_2)}{m_1 + m_2} = \frac{6 + 10}{5} m = \frac{16}{5} m$

 $\frac{2}{5}m_1k_1^2 + \frac{2}{5}m_2k_2^2 + m_1\left(\frac{16}{5} - 2\right)^2 + m_2\left(5 - \frac{16}{5}\right)^2$

 $Mgh = \int \frac{m}{2} + \frac{H}{2} + \frac{M R^2}{2} \cdot \frac{1}{2R^2} \cdot \sqrt{2}$

 $V = \sqrt{\frac{mgh}{\left(\frac{m}{2} + \frac{3}{4}\mu\right)}} = \sqrt{V = 1.543 \frac{m/s}{s}}$

mgh = (m + 3 m) v2

 $\int_{1}^{1} CH + \int_{1}^{1} Steiner_{2} = \frac{2}{5} \left(m_{1} R_{1}^{2} + m_{2} R_{2}^{2} \right) + m_{2} \left(R_{1} + R_{2} \right)^{2}$ = 28.6 E

 $\left[z = \frac{\pi f}{2} \cdot R^{5} \left[1 - \frac{2}{3} + \frac{1}{5}\right] = \left(\frac{1}{2} \cdot \frac{4}{3} R^{3} \pi \cdot f\right) \frac{2}{5} R^{2}$