## Modul 7 - Zadaci

$$\sum_{m,j=1}^{m,j} m y = m y y$$

$$\begin{array}{c} (A) \quad \bigwedge_{AB} = ? \quad \bigwedge_{AB} = ? \\ (A) \quad \bigwedge_{AB} = ? \quad \bigwedge_{AB} = ? \end{array}$$

$$A_{AB}^{mg} = \prod_{A}^{mg^{2}} - \prod_{B}^{mg^{2}} = mgy_{A} - mgy_{a} = mgy_{a}$$

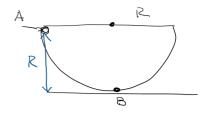
$$A_{AB}^{mg^{2}} = 0,981$$

$$ma = -my + N$$

$$N = m\alpha + mg = m(\alpha + g) = m(\frac{29s^2}{R} + g)$$

$$\sqrt{N = 5N}$$

$$alx = \frac{v_x^2}{R}$$



$$\Omega_k(B) = \frac{\mathcal{O}_{r_3}^2}{P}$$

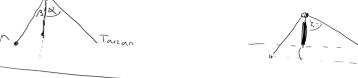
$$V_{B} = \sqrt{\frac{2 \text{ AAB}}{m}} \left[ V_{B} = 2,758 \text{ m/s} \right]$$

$$N = 5N$$

$$A_{AB} = \frac{1}{2} m v_B^2 + N_B - \frac{1}{2} m v_A^2$$

$$A_{AB}^{retr} = \frac{1}{2}mv_3^2 + \Pi_B - \frac{1}{2}mv_2^2$$

$$A_{AB}^{\overline{Fbr}} = \frac{1}{2}m(v_{B}^{2} - v_{A}^{2}) + \overline{\Pi}_{B}$$



$$\frac{1}{2}MO_{A}^{2} + May 3_{T} = \frac{1}{2}MO_{B}^{2} + May 3_{D2} / m$$

=> Tarzun autalost doura Diejn sadrueta is

$$\alpha$$
)  $\Delta L = ? \prod_{B} = 3,$ 

$$\int_{8} = \frac{1}{2} k \Delta \ell^{2}$$

$$mg(4k+se') = \frac{1}{2} kol^2$$

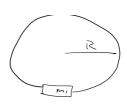


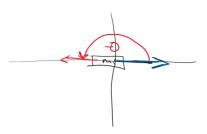
ksliz-mgsl'=zngyk=0

7,27) m.=10kg Mo=0,25



$$A_{01}^{Ftr} = -\mu_{\text{D}} \cdot \text{mg} \cdot 22\pi$$
 (a)  $A_{01}^{Ftr} = -308$ )





=> sila je nepotencijalna

7.34) 
$$\Pi(x) = -\frac{C_G}{x^G}$$
  $C_G > 0$ ,  $C_G - const$ 

$$F_{x} = -\frac{d\Omega(x)}{dx} = -\frac{d}{dx}\left(-\frac{C_{p}}{x^{6}}\right) = C_{p}\left(-\frac{d}{dx}\left(\frac{1}{x^{6}}\right)\right) = -\frac{6C_{p}}{x^{7}}$$

$$\int_{X} F_{X} = -\frac{GC_{G}}{X^{7}}$$

$$mgh = mg2R + \frac{1}{2}m2s^2$$

$$h-ZR=\frac{mRg}{2mg}$$

$$\mathcal{O}_{c}=?$$
,  $\mathcal{O}_{c}=?$ ,

mgh-mgt= 12m2=2

$$D = 3000$$

$$M_0 = 0, 2$$

$$Y_0 = k = 400$$

b) a) 
$$v_0=0$$

$$\int_0^{\infty} \frac{1}{2} \int_0^{\infty} \frac{1}{2$$

$$A) \frac{1}{2} = ?$$

$$COSX = \frac{k_A}{n_A}$$

ha= cosa la

ma=-my+T T= matmy = m ( Pot + y)

$$\alpha_k = \frac{v_k^2}{R} = \frac{v_k^2}{L_2^2}$$