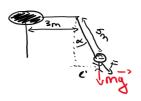


## Modul 5 - Zadaci

Wednesday, November 22, 2023 10:02 PM

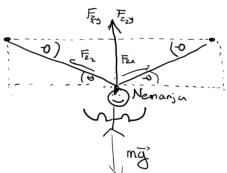
5.46)

$$\cos \alpha = \frac{mg}{F}$$
  $\int_{-\infty}^{\infty} \frac{mg}{\cos \alpha}$ 



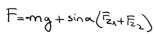
 $Sind = \frac{mak}{E}$  Fsina = mak

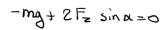
$$Fsind = m \frac{v^2}{R} = F = \frac{m^2 v^2}{R sind}$$



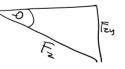
-> zaustavio se => zbir svih sila je jednak O

Fzy = sint. Fz





$$\overline{F_2} = \frac{mq}{2\sin\alpha} \qquad \overline{F_2} = 2542N$$



p) = 5/2-10/ 0=5

$$2.5-10' = \frac{mg}{2.5-10}$$

$$Sin-b = \frac{mg}{5.454}$$

$$Sin\theta = \frac{mg}{5.10^{4}} \qquad \theta = \arcsin\left(\frac{mg}{5.10^{4}}\right)$$



$$5.59) m = 45 ky$$

$$2R = 32 cm$$

$$1R = 16 cm$$

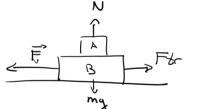
$$L = 30 cm$$

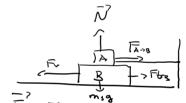
$$\sin \alpha = \frac{R}{R+A} = \frac{Ab}{4c}$$

$$F_{x} = -N + \overline{F}_{z} \times$$

= trazena sila pritistanja je usmerena udesno

$$\begin{array}{ccc}
5.73) & \bigcirc_{A} = 2.40 & \bigcirc_{R} = m_{A}g \\
\bigcirc_{B} = 3.60 & \bigcirc_{M} = \frac{Q_{\times}}{g}
\end{array}$$





$$F_{A\to B} = m_A g_M = \frac{Q_A}{g} g_M = Q_{AM}$$

$$\frac{F_{v}=F_{tr}}{|F_{v}=18N|} = F_{tr} = M_{g}(m_{A}+m_{B}) = M_{g}\left(\frac{Q_{A}}{g}+\frac{Q_{b}}{g}\right) = \frac{M_{g}}{g}\left(Q_{A}+Q_{B}\right) = M\left(Q_{A}+Q_{B}\right)$$



$$F_2 = \frac{m\alpha}{\cos\alpha}$$
  $F_2 = \frac{m\alpha}{\sin\alpha}$ 

$$\frac{pra}{\cos a} = \frac{rag}{\sin a}$$

$$a = \frac{g \cos a}{\sin a} = g \cos a$$

$$a = \frac{g \cos a}{\sin a} = g \cos a$$

$$a = \frac{g \cos a}{\sin a} = \frac{g \cos a}{\sin a}$$

$$V_0 = \frac{3mq}{L}$$

$$m\frac{dv}{dt} = my - kv$$

$$\frac{dv}{dt} = g - kv$$

6)



$$F_3 = N = m_3 - m_n k$$
  
 $N = -30,38N$