$$10.3$$
)  $A=0,180m$ 
 $F_{1}=18,0N$ 
 $F_{2}=26,0N$ 
 $F_{3}=14,0N$ 
 $d=a\sqrt{2}$ ,  $d=\frac{a\sqrt{2}}{2}$ 

$$M_{0}^{\overline{h}} = \overline{t_{1}} \cdot \frac{d}{d} \sin(\mu s^{2}) (-1)$$

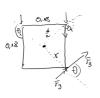
$$M_{0}^{\overline{h}} = \overline{t_{2}} \cdot \frac{d}{d} \sin(\mu s^{2}) (-1)$$

$$M_{0}^{\overline{h}} = \overline{t_{3}} \cdot \frac{d}{d} \sin(\mu s^{2})$$

$$M_{0}^{\overline{h}} = \overline{t_{3}} \cdot \frac{d}{d} \sin(\mu s^{2}) (-\overline{t_{1}} + \overline{t_{2}}) + \overline{t_{3}} \cdot \frac{d}{d}$$

$$M_{0} = \frac{d}{d} \sin(\mu s^{2}) (-\overline{t_{1}} + \overline{t_{2}}) + \overline{t_{3}} \cdot \frac{d}{d}$$

Mo=2,50Nm

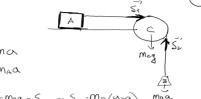


10,17) Ma=12,0kg -> kutiju

Ma=5,00ky -> teg

Mc=2,00ky-> kotur (homogen dirk)

rc=0,50m



$$m_B g - \alpha (m_B + m_A) = \frac{1}{z} m c \alpha$$

$$m_{Bg} = m_{C} \alpha \frac{1}{2} + \alpha (m_{B} + m_{A})$$

$$\alpha = \frac{m_{e}q}{\frac{1}{2}m_{A}+m_{B}+m_{A}}$$



Yo = mag + Sz

$$10.32$$
)  $913 = 9.103$ 

$$t_1 = l_{min} = 60 \text{ s}$$

$$E = \frac{2}{3} A = 6.10^3 \text{ J}$$

$$W_z = 2500 \, \text{min} \cdot \frac{11}{30 \, \text{m/s}}$$

$$A = \frac{E}{L} \int_{A=100W}$$

$$M_{z=}\frac{P}{\omega_{z}}$$
  $M_{z=358}M_{m}$ 

$$T = \frac{M_z}{r_A} \Rightarrow Q = \frac{M_z}{r_A}$$

$$\omega_2 = \left(\frac{r_1}{r_2}\right)^2 \omega_{\Lambda}$$

$$\omega_2 = \frac{r_1}{r_2} \omega_{\Lambda}$$

10.53) 
$$\ell_{k}=0.52m^{-2}/r\ell=0.2m$$
 $m_{k}=50k_{k}$ 
 $\omega=850^{4}min\cdot\frac{\pi n_{k}}{30\sqrt{3}n_{k}}$ 
 $\omega=850^{4}min\cdot\frac{\pi n_{k}}{30\sqrt{3}n_{k}}$ 
 $\omega=850^{4}min\cdot\frac{\pi n_{k}}{30\sqrt{3}n_{k}}$ 
 $E=160N$ 
 $t_{k}=7.5s$ 
 $\omega(t_{k})=0$ 
 $\omega(t_{k})=0$ 

$$S_{z} = \mathcal{E}_{0} + \mathcal{W}_{0}$$

$$\mathcal{E}_{0} = \frac{\omega_{z} - \omega_{0}}{\delta_{\lambda}}$$

$$\mathcal{E}_{0} = \frac{\omega_{z} - \omega_{0}}{\delta_{\lambda}}$$

$$\mathcal{U}_{k} = 0,48.8$$

$$M_{s}=3.80 \text{ kg}$$

$$\mathcal{L}=80.0 \text{ m}=0.80 \text{ m}$$

$$M_{k}=M_{z}=M=2.50 \text{ kg}$$

$$S_{o}=?$$

$$S_{o}=?$$

$$S_{o}=M_{o}=J_{z} \text{ e}_{o}$$

$$M_{o}=M_{z}(\frac{L}{z})^{2}$$

$$M_{o}=M_{z}(\frac{L}{z})^{2}$$

$$M_{o}=M_{z}(\frac{L}{z})^{2}$$

$$M_{o}=M_{z}(\frac{L}{z})$$

$$M_{o}=M_{z}(\frac{L}{z})^{2}$$

c) 
$$K_1 + \widehat{\prod}_1 = K_2 + \widehat{\prod}_2$$
  
 $K_1 = 0$   
 $\widehat{\prod}_2 = mq(-\frac{L}{2})$   
 $K_2 = \frac{L}{2}(J_{\bar{1}} + J_{\bar{1}})\omega^2$   
 $K_2 + \widehat{\prod}_2 = 0$ 

$$=>\frac{1}{2}\left(\frac{1}{12}m_{1}L^{2}+m_{1}L^{2}\left(\frac{L}{2}\right)^{2}\right)\omega^{2}=-m_{2}\left(-\frac{\ell}{2}\right)$$

$$\xi_{0} = \frac{m_{0}^{2}}{\frac{1}{47}m_{1}\ell^{2} + m_{0}(\frac{4}{5})^{2}} \left[ \xi_{0} = 16.27 + rad_{1}^{2} \right]$$

6) neće, stap će se naginjubi i ubrzanje će se smanjivati

$$= 3 \frac{2}{\sqrt{2}} \left( \frac{12}{\sqrt{2}} \omega^2 \int_{\Sigma} + W \left( \frac{2}{\sqrt{2}} \right)_z \right) m_z^2 - W d\left( -\frac{2}{\sqrt{2}} \right)$$

$$W = \sqrt{\frac{mgl}{\frac{1}{2}msl^2 + m_L(\frac{l}{2})^2}}$$

$$W = 5,70 \text{ rad/s}$$

$$\int = 0.26 kym^2$$

$$d = 30^\circ$$

$$\frac{F_{tr} = \mu_{b}n}{F_{os}\cos\alpha = \mu_{b}n + F + Q}$$

b) Ep = ?

$$M = (F - Ftr)r$$

$$\mathcal{E}_{p} = \frac{(F-\mu d Fossina)r}{J}$$

10.70) m=5kg X=36,3°

x iy bumfonente

$$\int_{V} = \int_{2}^{-}$$



$$T_{r_0} = |\tilde{z} \in \mathcal{E} = \frac{\alpha}{r} \Rightarrow T_{r_0} = |\tilde{z} \approx \frac{\alpha}{r}$$

$$mg(\sin \alpha z_0 \cos \alpha) = \alpha \left( m + \frac{1}{r_0^2} \right)$$

$$\alpha = \frac{m_{g}(\sin \alpha_{f(p)} \kappa)}{m + \frac{1}{\kappa^{2}}}$$

$$W + \frac{L^{2}}{7}$$

6, T=?

$$Q_B - Q_A = Q\left(\frac{1}{2}mk + m_B + m_A\right)$$

$$Q = \frac{Q_B - Q_{12}}{\frac{1}{2}mk + m_B + m_A} \left[ Q = \frac{218ml_3}{2} \right]$$