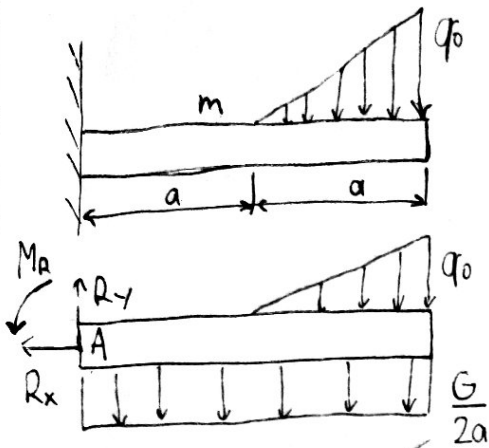


Příklad 1

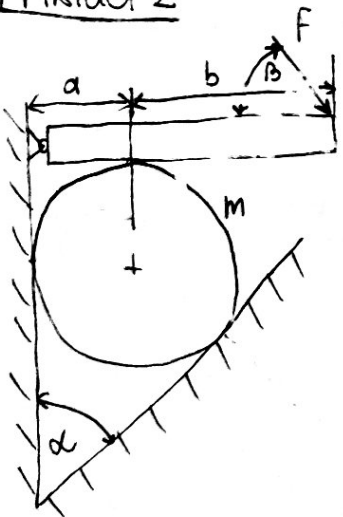


tíha je spojitě  
konstantně rozložené  
zatížení

$$\begin{aligned} \vec{x}: R_x &= 0 \\ \uparrow y: R_y - q_0 a \frac{1}{2} - \frac{G}{2a} 2a &= 0 \\ \curvearrowleft A: M_A - \frac{1}{2} q_0 a (a + \frac{2}{3}a) - mga &= 0 \end{aligned}$$

$$\begin{aligned} &\vdots \\ R_y &= \underline{\underline{8300 \text{ N}}} \\ M_A &= \underline{\underline{37,5 \text{ kN}}} \end{aligned}$$

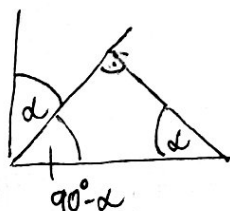
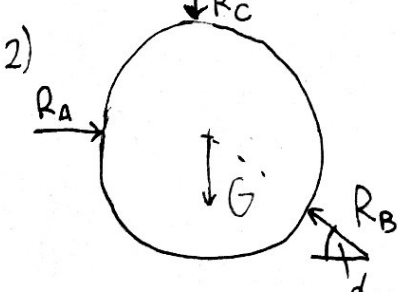
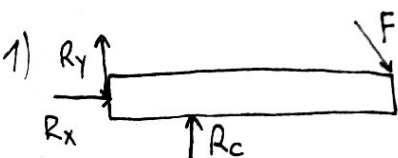
Příklad 2



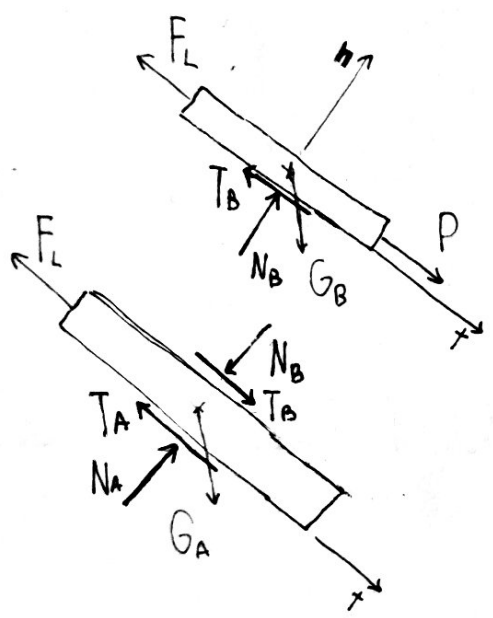
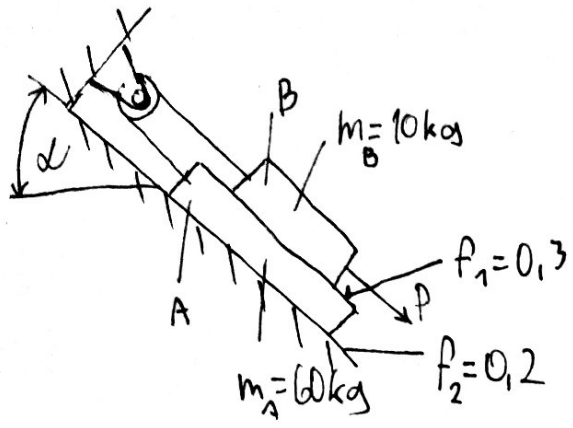
$$\begin{aligned} 1) \vec{x}: R_x + F \cos \beta &= 0 \quad (1) \\ \uparrow y: R_y + R_c - F \sin \beta &= 0 \quad (2) \\ \curvearrowleft: R_c a - F \sin \beta (a+b) &= 0 \quad (3) \end{aligned}$$

$$\begin{aligned} 2) \vec{x}: R_A - R_B \cos \alpha &= 0 \quad (4) \\ \uparrow y: -G - R_c + R_B \sin \alpha &= 0 \quad (5) \end{aligned}$$

$$\begin{aligned} &\vdots \\ R_A &= \underline{\underline{190 \text{ N}}} \\ R_B &= \underline{\underline{556 \text{ N}}} \\ R_c &= \underline{\underline{375 \text{ N}}} \end{aligned}$$



### Příklad 3



$$\vec{f}: P - F_L - T_B + G_B \sin \alpha = 0 \quad (1)$$

$$\uparrow n: N_B - G_B \cos \alpha = 0 \quad (2)$$

$$T_B = f_1 N_B \quad (3)$$

$$\vec{f}: -F_L - T_A + T_B - G_A \sin \alpha = 0 \quad (4)$$

$$\uparrow n: N_A - N_B - G_A \cos \alpha = 0 \quad (5)$$

$$T_A = f_2 N_A \quad (6)$$

neznámé:  $P, F_L, T_B, N_B, T_A, N_A \dots$  6 rovnic - Ok

⋮

$$\underline{\underline{P = 75 \text{ N}}}$$