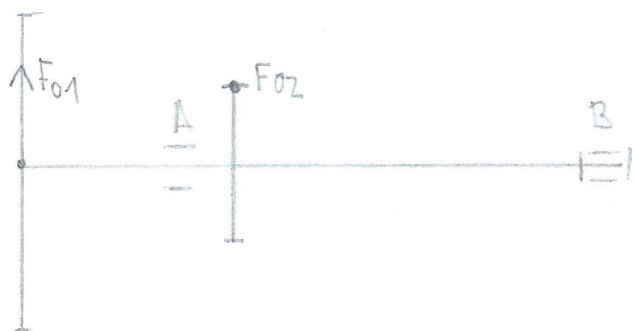
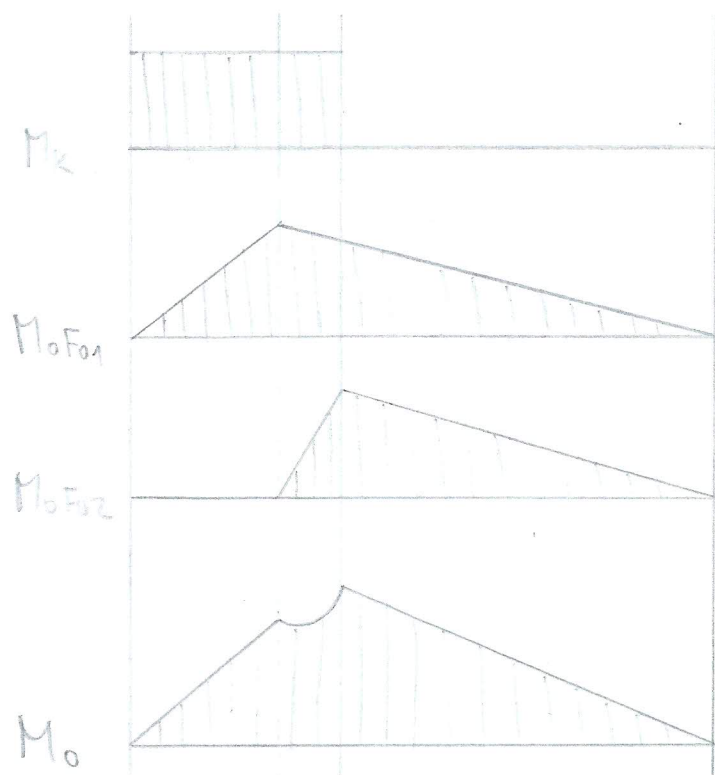




V momente neuváží se namínko,
protože dále používám druhý mocniny.



$$M_{\max} = \sqrt{\left(\frac{F_1 \cdot (l/3 \cdot l/3)}{4}\right)^2 + \left(\frac{F_2 \cdot (l/3 \cdot l)}{4}\right)^2} = 871\,446,5386 \text{ N}\cdot\text{mm}$$

$$M_{\text{RED}} = \sqrt{M_{\max}^2 + M_k^2} = 994\,896,512 \text{ N}\cdot\text{mm}$$

$$\sigma_D \geq \frac{M_{\text{RED}}}{\frac{\pi d^3}{32}} \Rightarrow d \geq \sqrt[3]{\frac{32 M_{\text{RED}}}{\pi \cdot \sigma_D}}$$

$$d \geq \underline{\underline{40,728 \text{ mm}}}$$