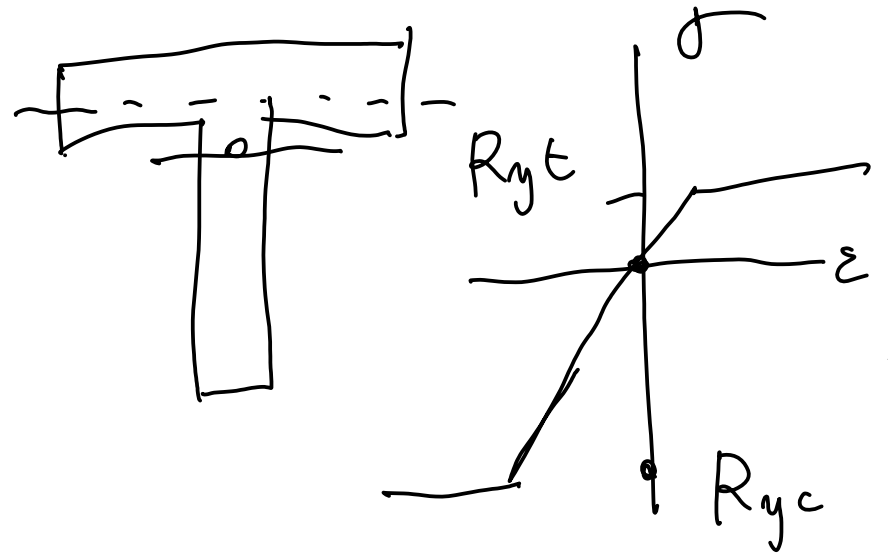
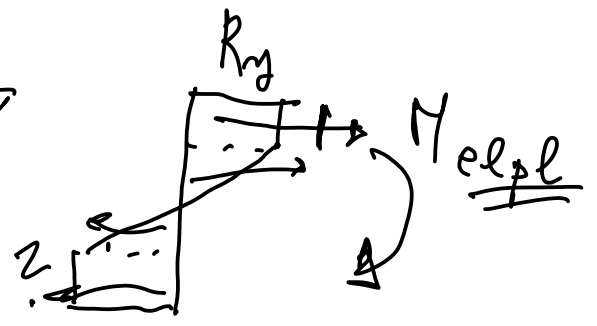
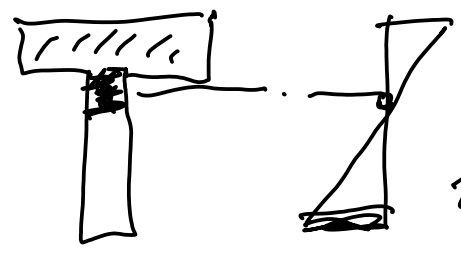
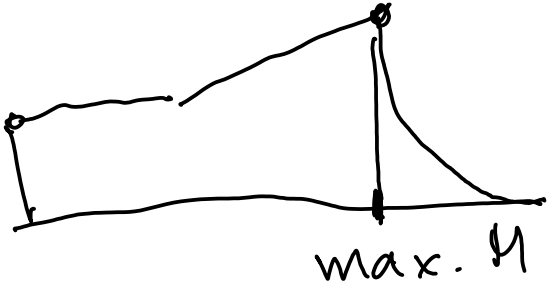
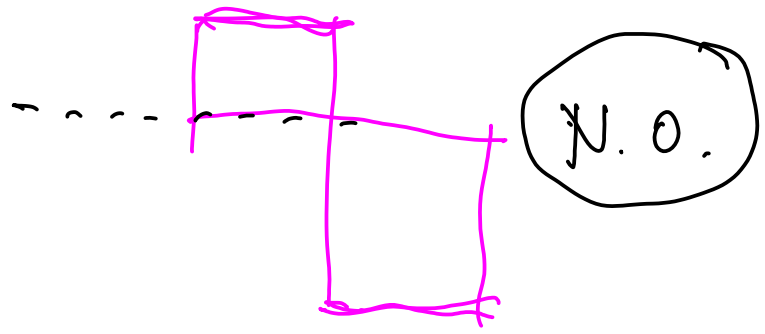
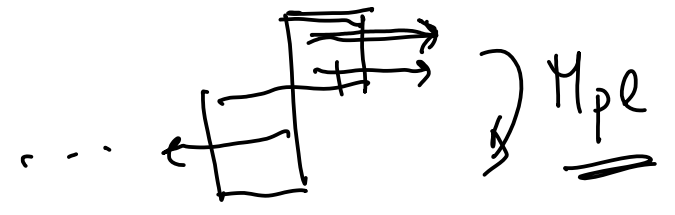


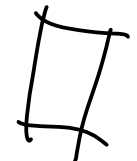
M

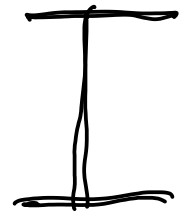
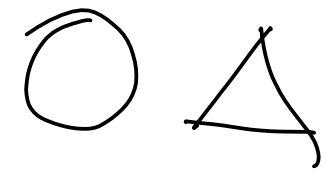


R_y

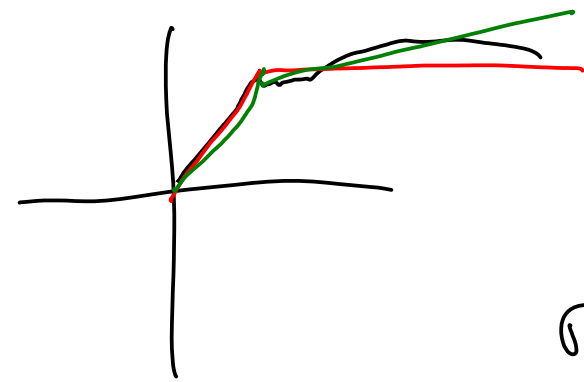
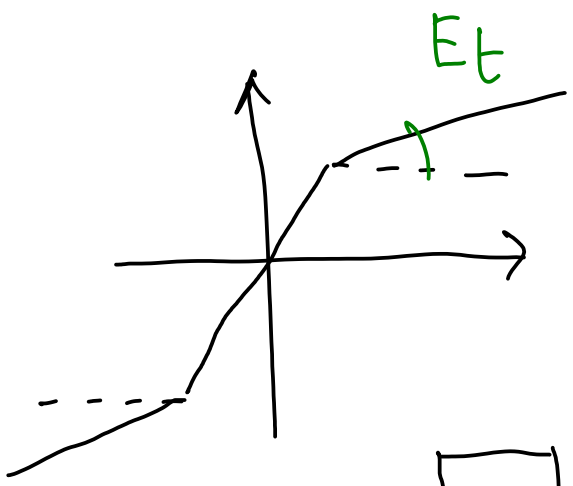


N.O.

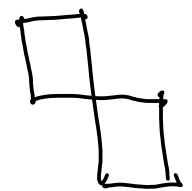
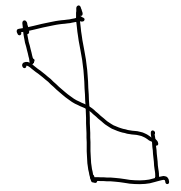
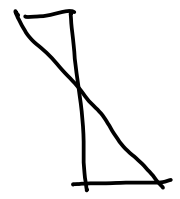
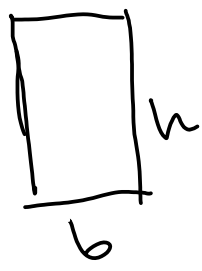
plast. rezerva $\eta = \frac{M_{pl}}{M_{el}} = 1,5$  (0.50%)



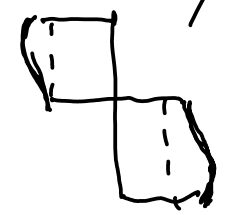
$\sim 1,05$ 1,1



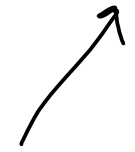
se zpevninim



$\sigma > R_{y}$



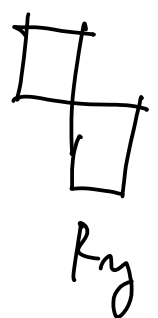
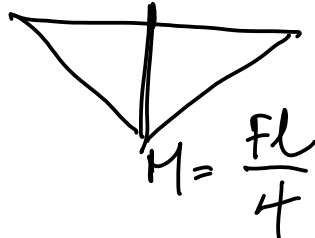
$\sigma > R_{y}$



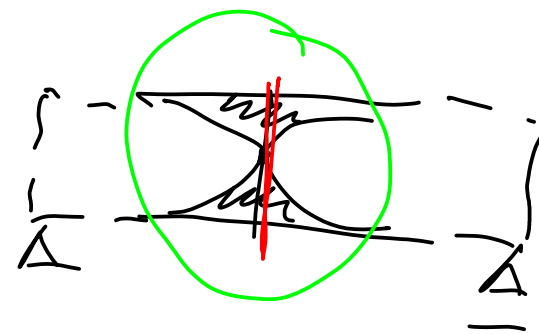
SNK

SUK :

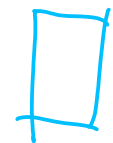
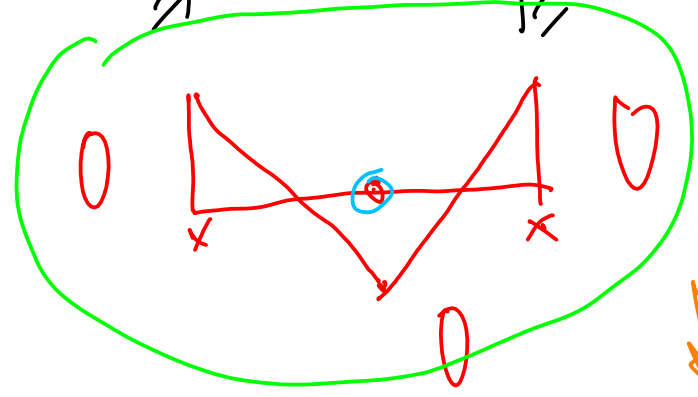
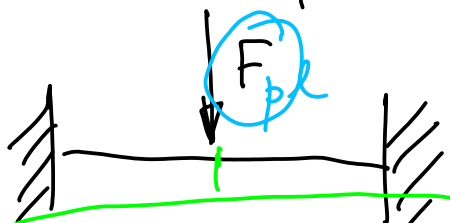
- analiza SNK



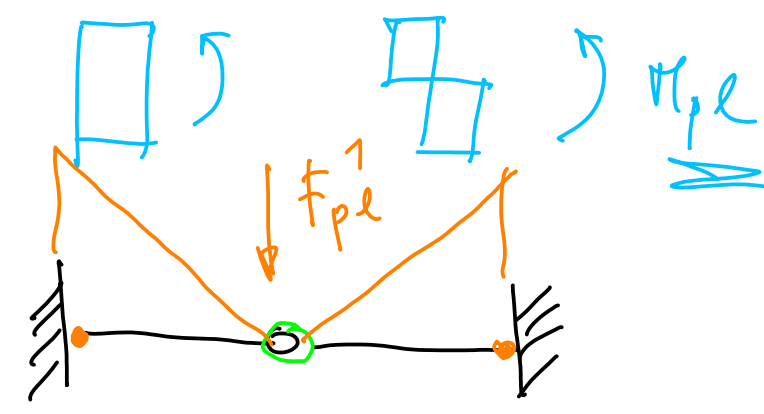
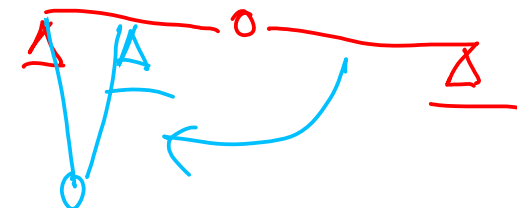
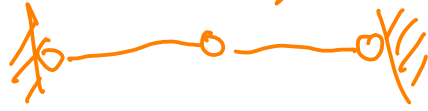
M_{pl}



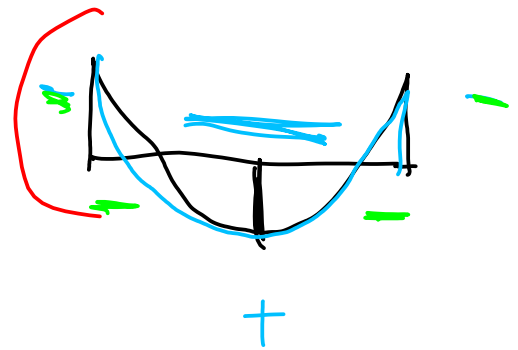
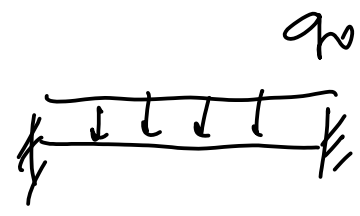
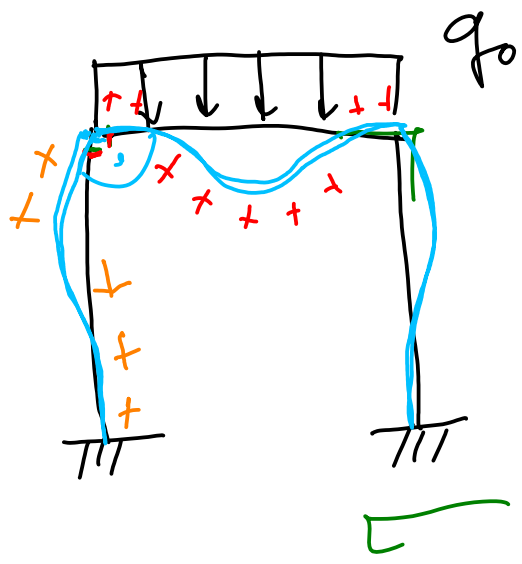
SNK:



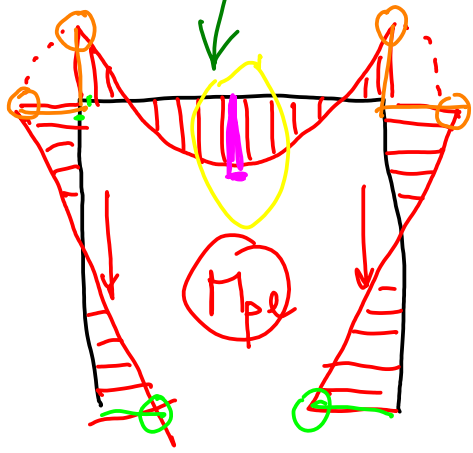
f_{pl}^{23}



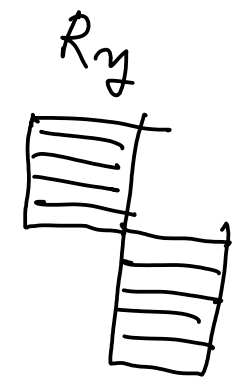
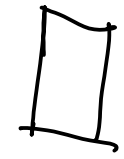
M_{pl}



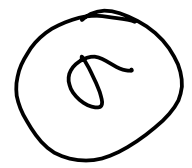
1. pl. kloub

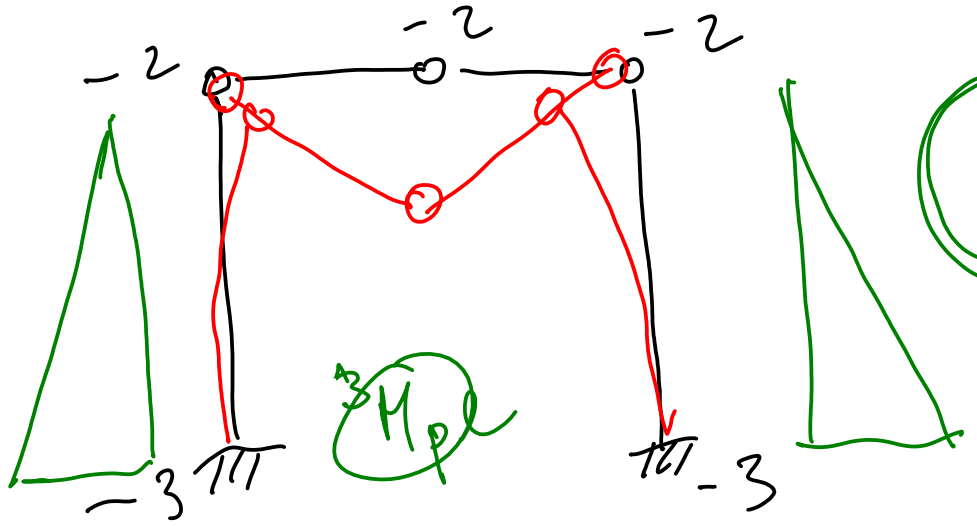
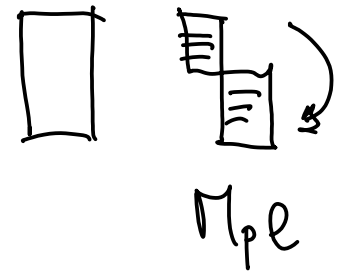
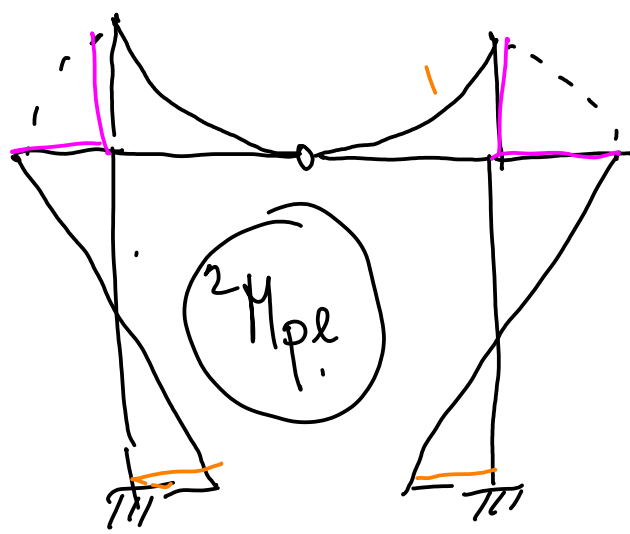
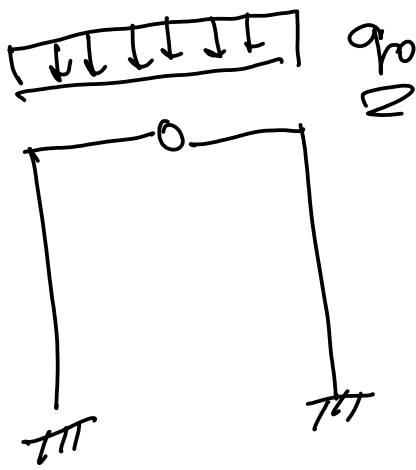


$q_0 \cdot pl$



$M_{pl} > 0 > 0$

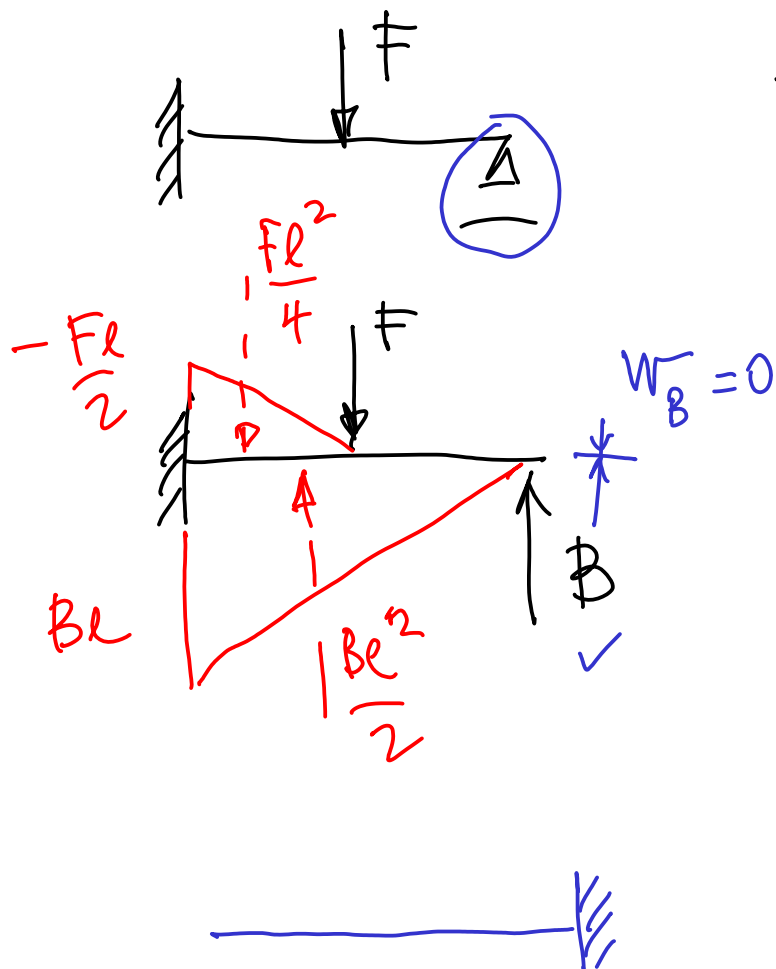




KONEC.

vyčerpaní
celé konstrukce
→ kolaps. KIN.

$$4 \times 3 - 2 \times 3 - 3 \times 2 = 12 - 6 - 6 = 0 \rightarrow \text{S.O.K. MECH.}$$



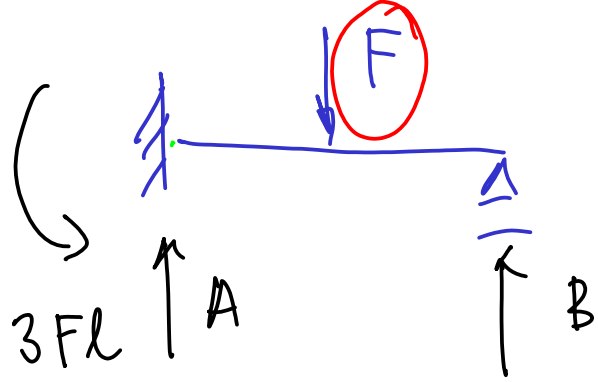
$$-EI w'' = M$$

$$w_B = \frac{M_f}{EI}$$

$$\frac{1}{EI} \left(\frac{Fl^2}{4} \cdot \frac{5}{6} l - \frac{Bl^2}{2} \cdot \frac{2}{3} l \right) = 0$$

$$\frac{5}{24} Fl^3 = \frac{Bl^3}{3}$$

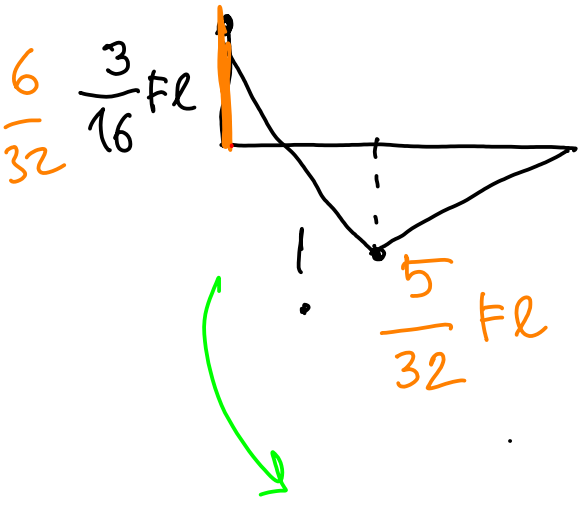
$$B =$$



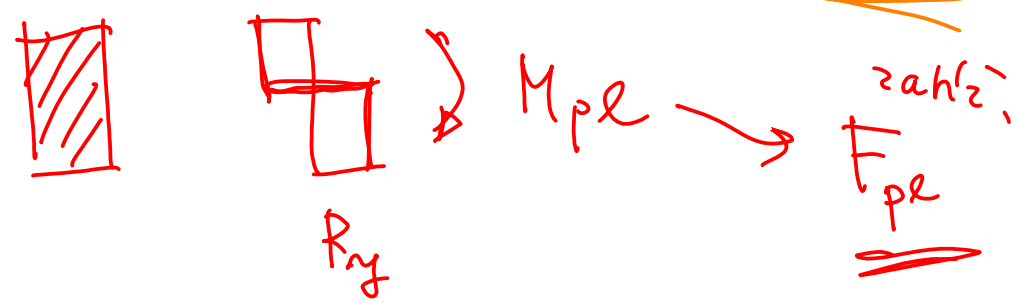
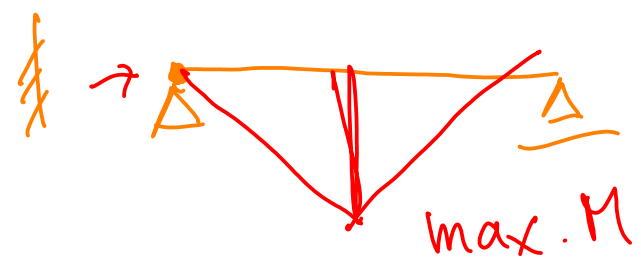
$$\curvearrowleft - \frac{3Fl}{16} + Al - F \frac{l}{2} = 0$$

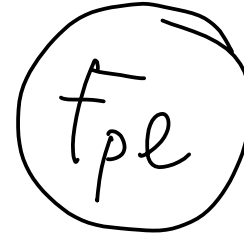
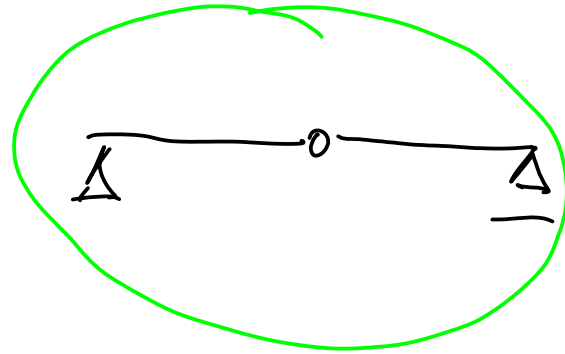
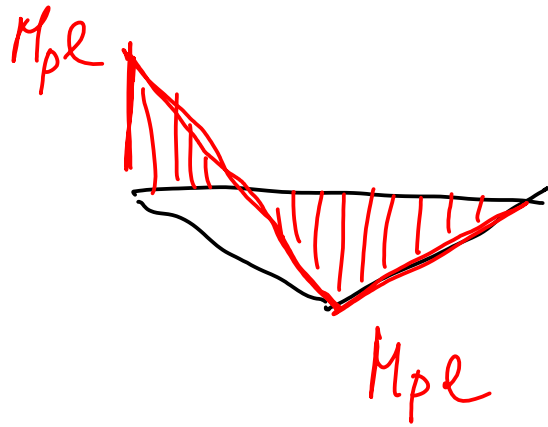
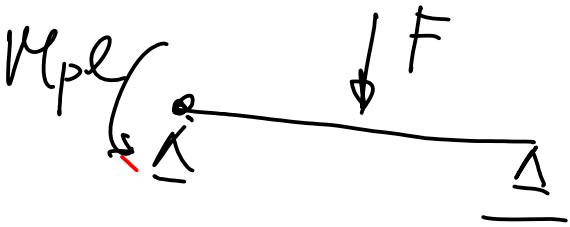
$$A = \frac{11}{16} Fl$$

$$B = \frac{5}{16} Fl$$



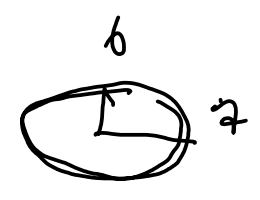
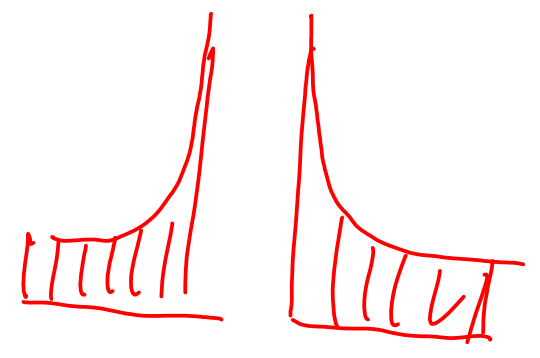
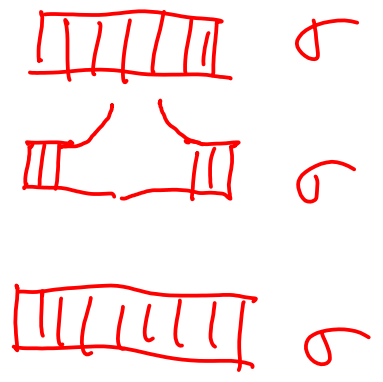
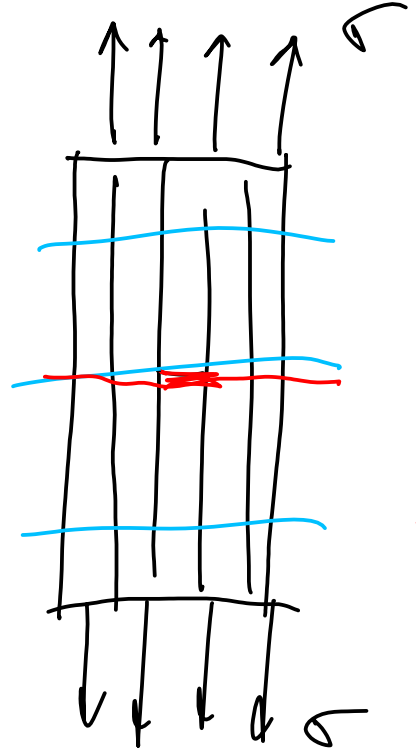
$$M\left(\frac{l}{2}\right) = -\frac{3}{16} Fl + \frac{11}{16} Fl \cdot \frac{l}{2} = \frac{5}{32} Fl$$





PLASTICITA

⇒ Lomová mechanika (✓)

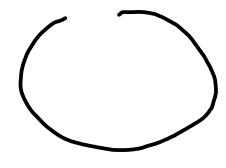
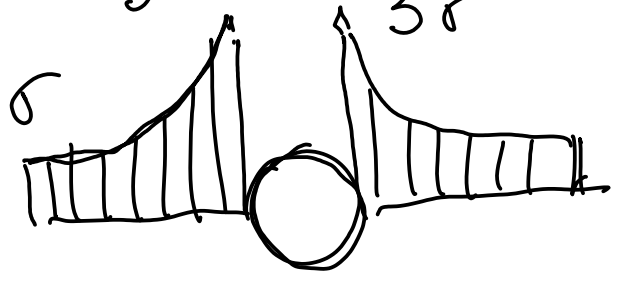


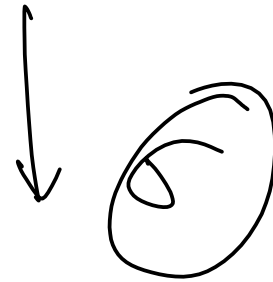
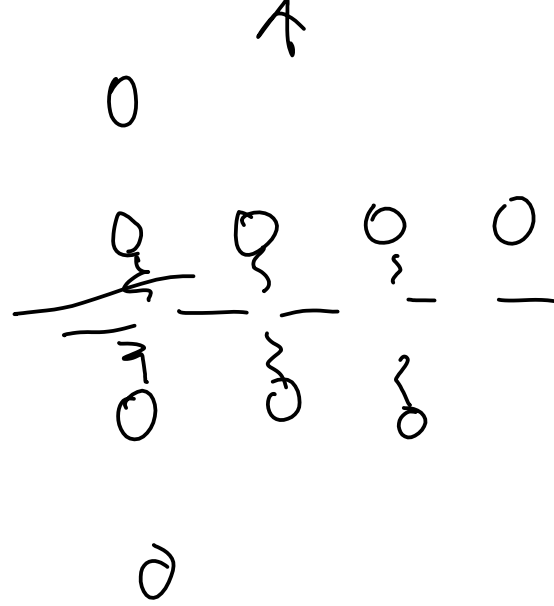
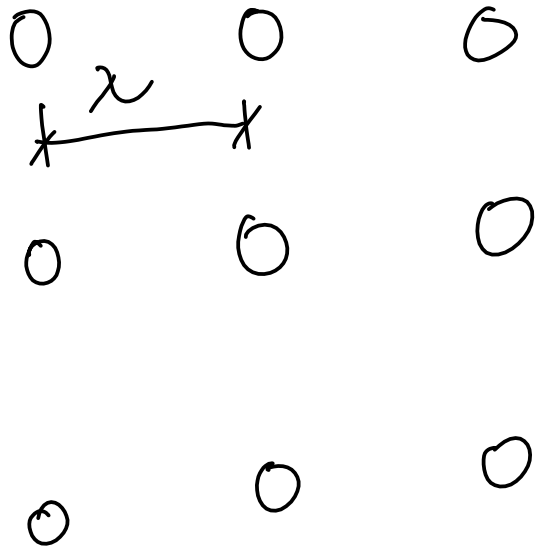
$a \gg b$



$r \rightarrow 0$

3σ 3σ



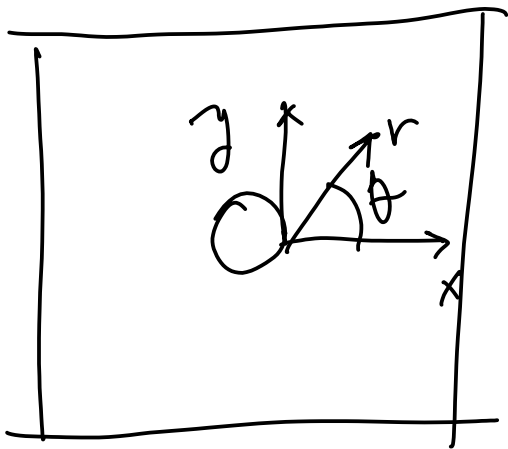
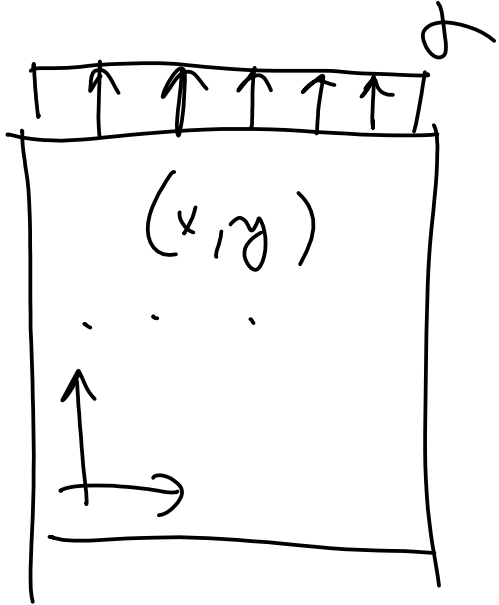


$$\sigma_c \sim \frac{E}{5}$$

$$E = 210 \cdot 10^3 \text{ MPa}$$

⇒ a priori failure
power ←

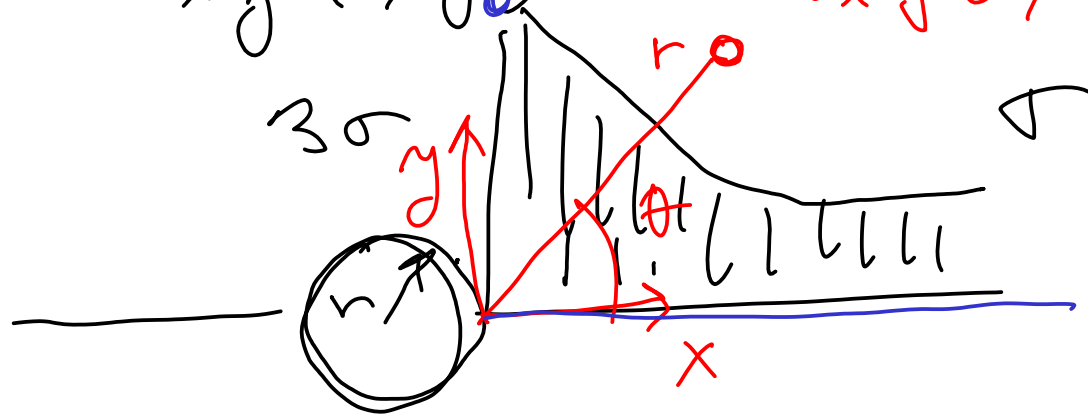
$$\sigma_c = 40$$



$$\sigma_x(x, y) = \sigma_x(r, \theta) =$$

$$\sigma_y(x, y) = \sigma_y(r, \theta) =$$

$$t_{xy}(x, y) = t_{xy}(r, \theta) =$$



$$x, y \rightarrow r, \theta$$

$$\theta = 0 \wedge \underline{r \rightarrow 0}$$