

Külpontú nyomási

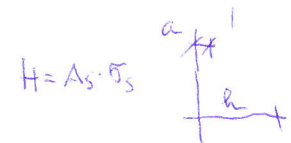
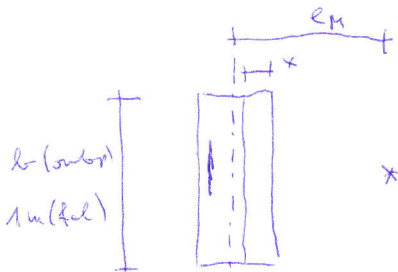
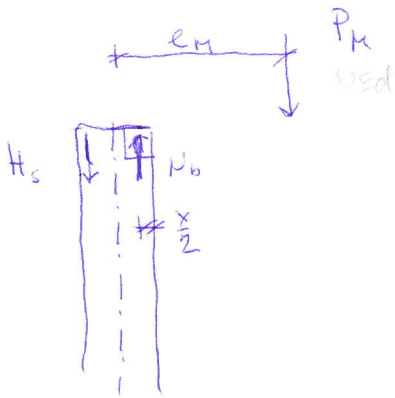
beton-vasbeton keresztmetszet

$$(P_M | M) = (P_M | e_M)$$

$$\sum M_i^{(As)} = P_M \cdot (e_M + (\frac{h}{2} - a)) - b \cdot x \cdot \sigma_b \cdot (h - a - \frac{x}{2}) = 0$$

$$a x^2 + b x + c = 0$$

$$x_{1,2} = \dots$$



$$\sum F_i = P_M + H - N_b = 0$$

(Függ)

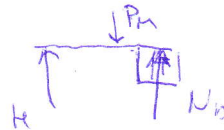
$$P_M + H - b \cdot x \cdot \sigma_b = 0$$

$$H = b \cdot x \cdot \sigma_b - P_M$$

ha $H < 0$ (negatív)

akkor nem létezik, hanem
nyomást len az acélbetét

(P_M a H is az N_b között van



igen kis külpontosság eset)