

PROSTOROVÉ NÁMAHANY PRUT

- 6 stupňů volnosti $\rightarrow$ 6 stat. podmínek rovnováhy (4M+2S; 5M+1S; 6M)

$$3S + 3M$$

$$\sum F_{xi} = 0$$

$$\sum M_{xi} = 0$$

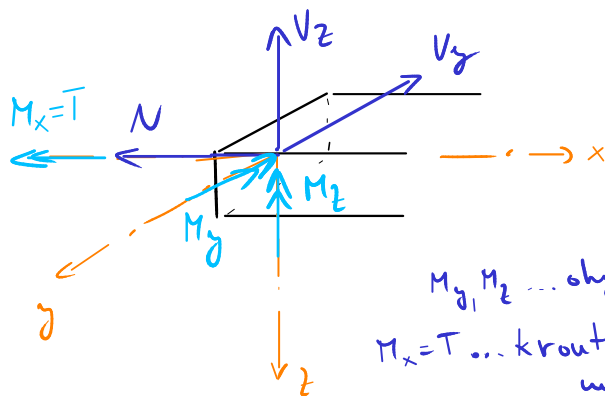
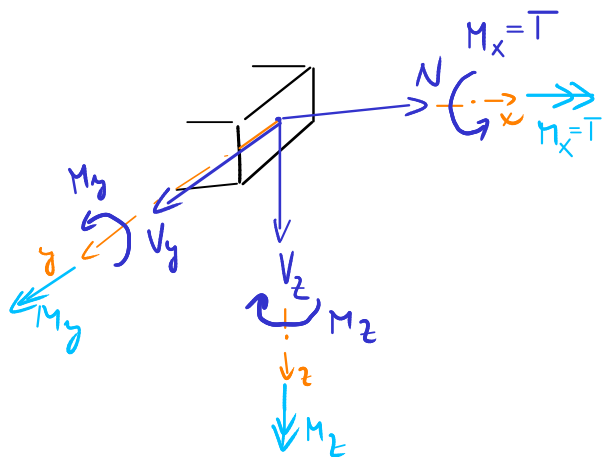
$$\sum F_{yi} = 0$$

$$\sum M_{yi} = 0$$

$$\sum F_{zi} = 0$$

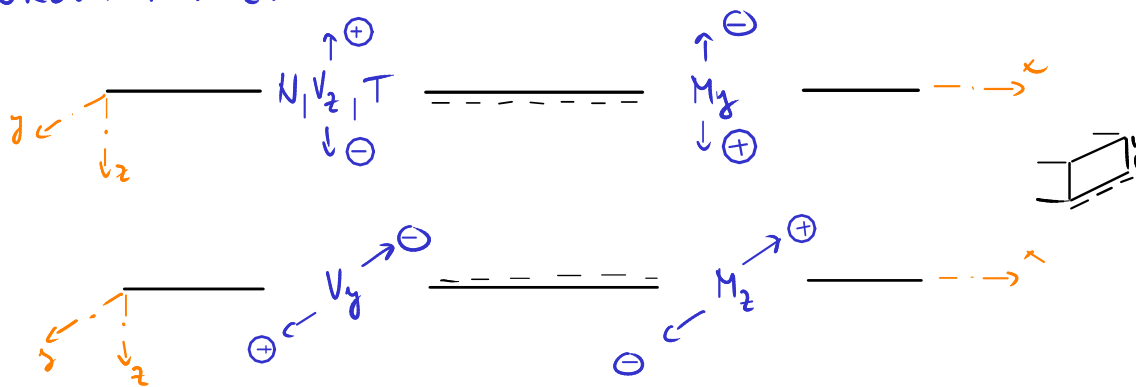
$$\sum M_{zi} = 0$$

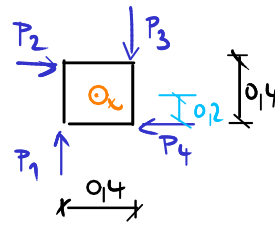
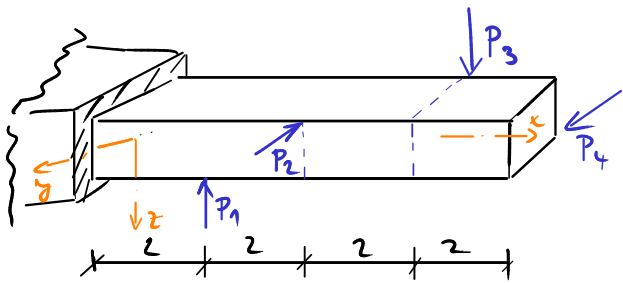
- kladné souřadné



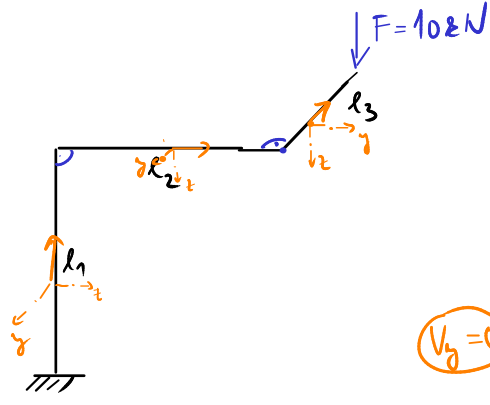
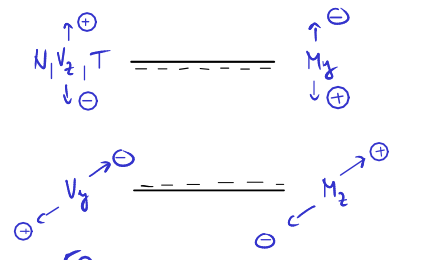
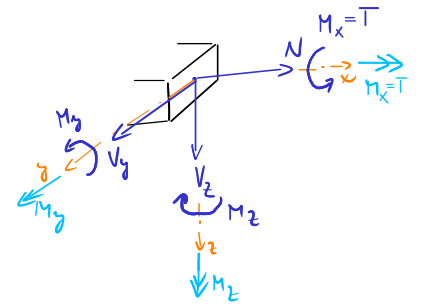
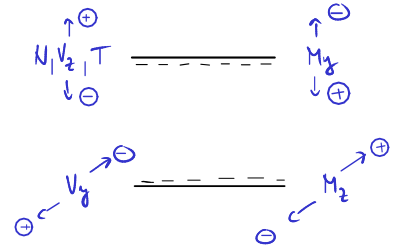
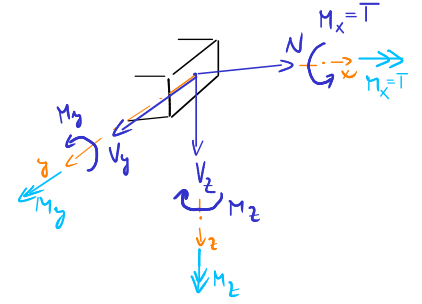
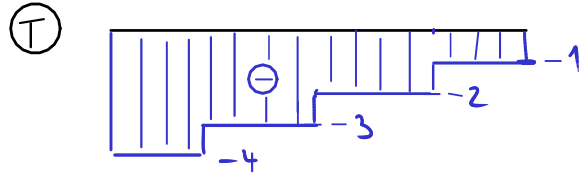
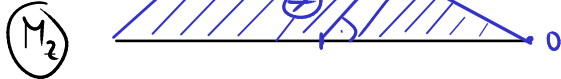
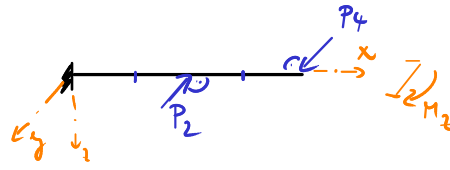
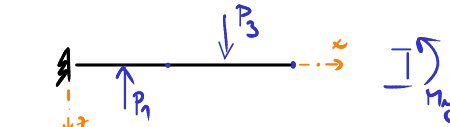
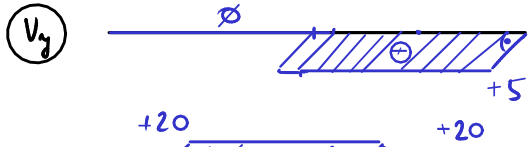
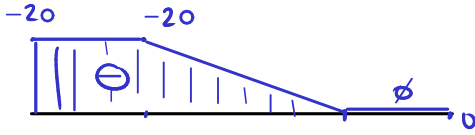
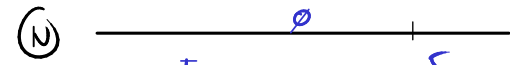
M_y, M_z ... ohybové momenty
 $M_x = T$... kroučící / torzní moment

- ZNAMÉNKOVÁ KONVENCE





$$P_1 = P_2 = P_3 = P_4 = 5 \text{ kN}$$



$$l_1 = l_2 = 5 \text{ m}$$

$$l_3 = 2 \text{ m}$$

$$V_y = 0$$

