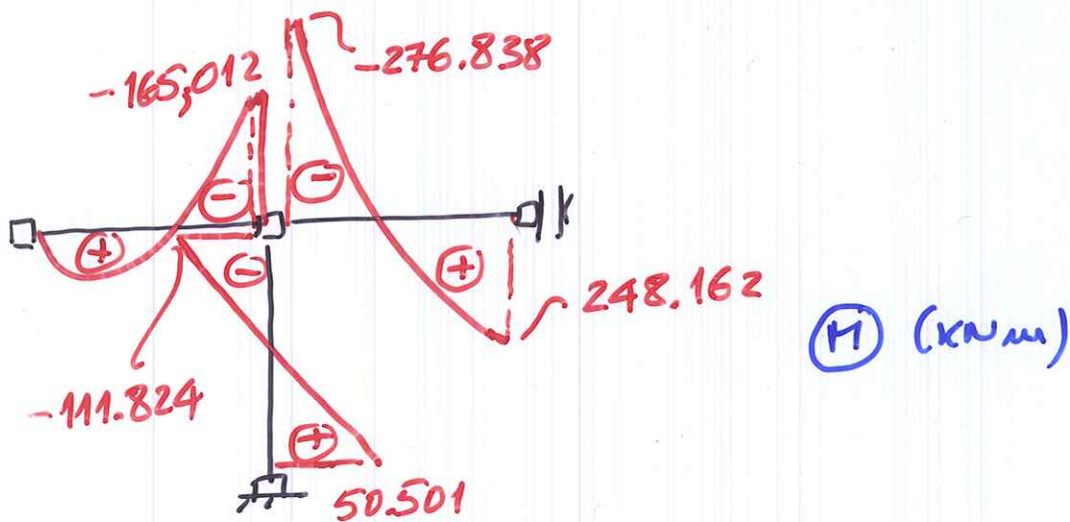
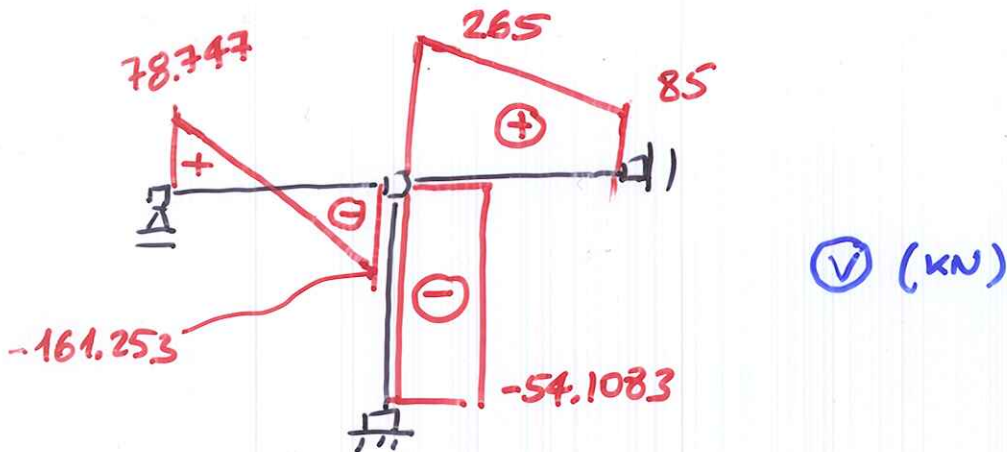
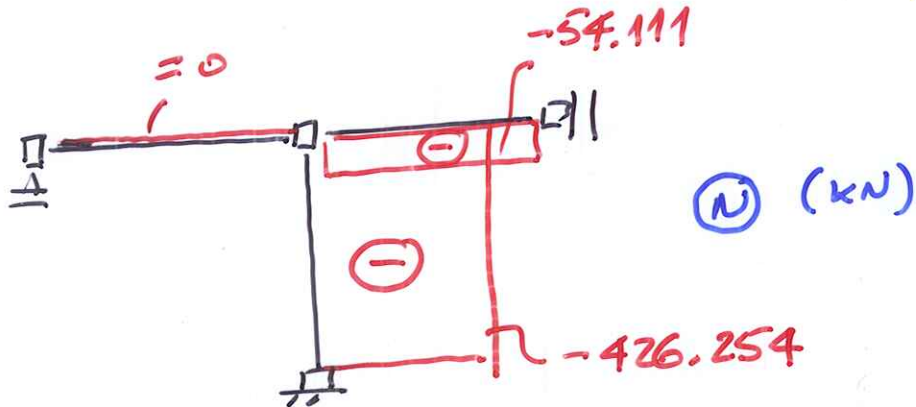
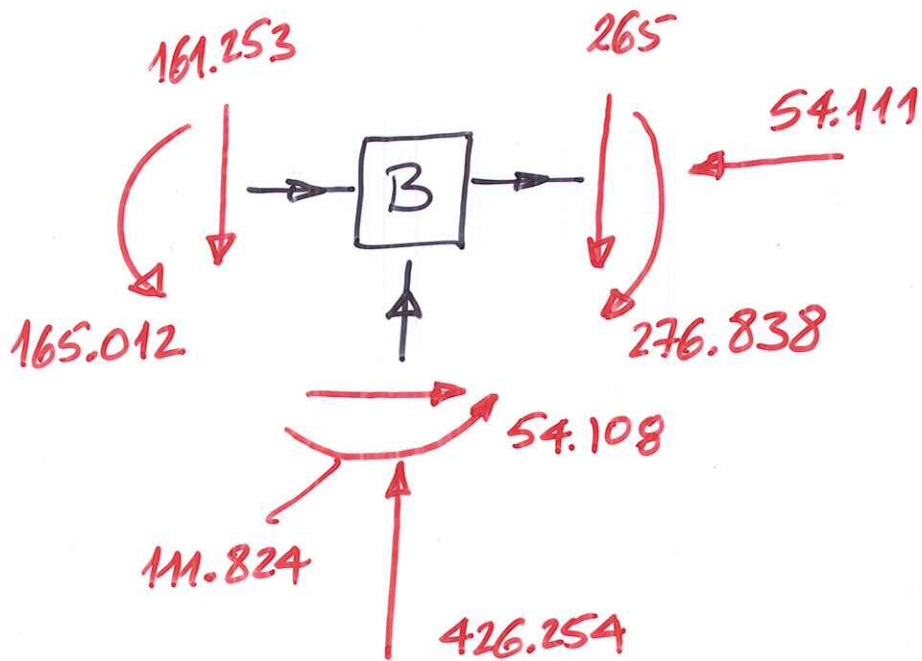
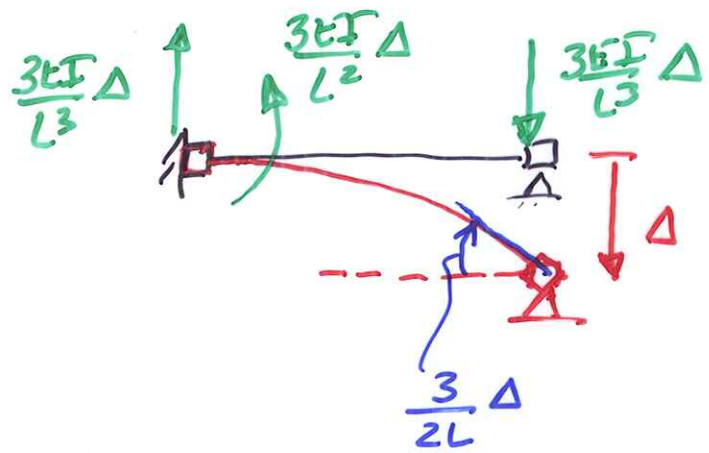
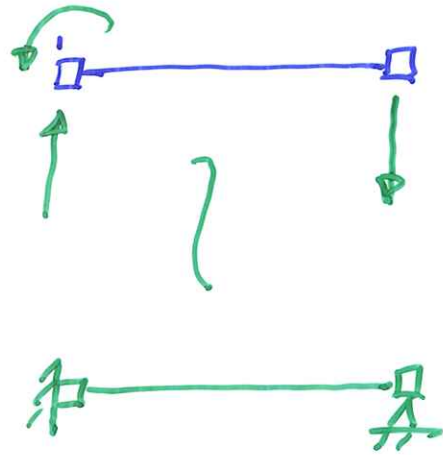
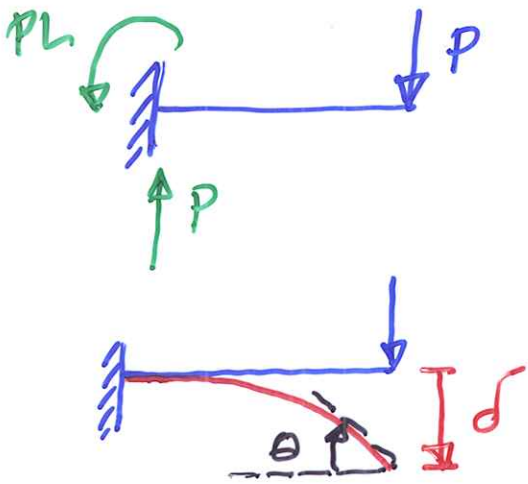


$$X_f = \begin{bmatrix} 0 \\ -165.012 \\ 0 \\ -276.838 \\ 248.162 \\ -54.111 \\ 50.501 \\ -111.824 \\ -426.254 \end{bmatrix} \begin{matrix} X_1 \\ X_2 \\ X_3 \end{matrix}$$



VERIFICAÇÃO DO EQUILÍBRIO NO NÓ B





$$P = \frac{3EI}{L^3} \Delta$$

$$\Delta = \frac{PL^3}{3EI}$$

$$\theta = \frac{3}{2L} \left(\frac{PL^3}{3EI} \right) = \frac{PL^2}{2EI}$$

$$\delta = \frac{PL^3}{3EI}$$

$$\theta = \frac{PL^2}{2EI}$$