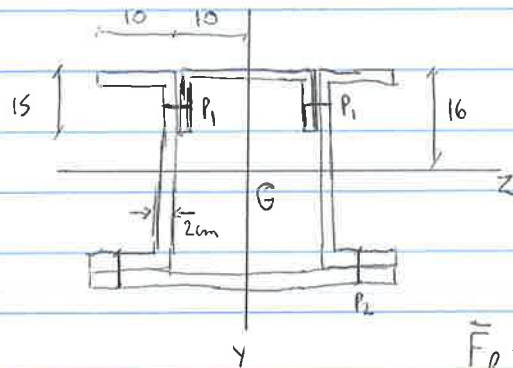
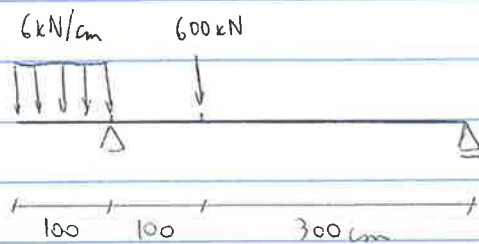
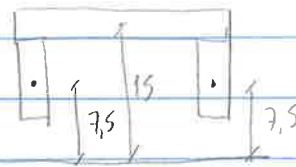
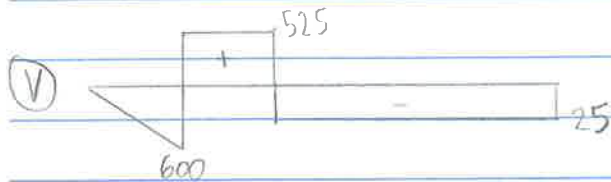


Exercício



$$\bar{F}_p = 100 \text{ kN}$$

$$I_z = 52447 \text{ cm}^4$$



$$f_1 = \frac{600 [2(15 \cdot 2 \cdot 7,5) + 20 \cdot 2 \cdot 15]}{52447} = 11,33$$

$$f_1 \cdot e_1 = 2 \bar{F}_p \rightarrow e_1 = \frac{2 \cdot 100}{11,33} = 17,7 \text{ cm}$$

$$f_2 = \frac{600 (2 \cdot 40 \cdot 15)}{52447} = 13,73$$



$$f_2 \cdot e_2 = 2 \bar{F}_p \rightarrow e_2 = \frac{2 \cdot 100}{13,73} = 14,6 \text{ cm}$$