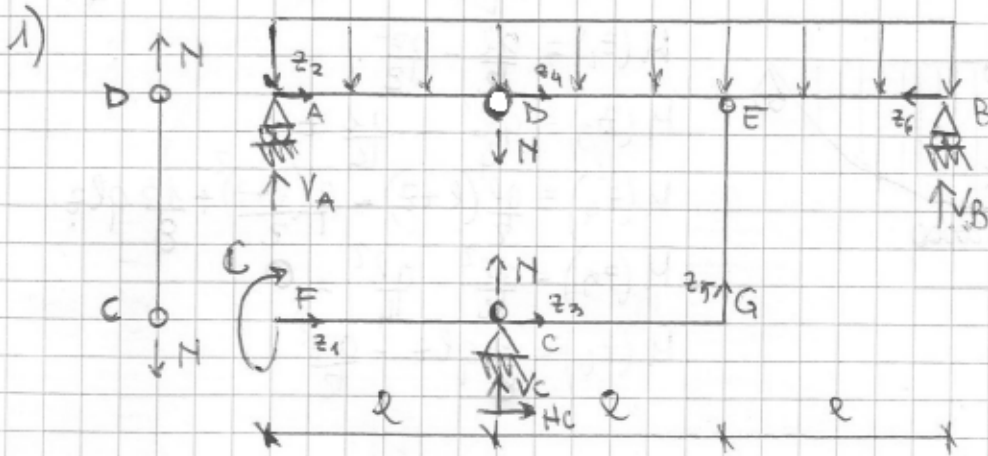




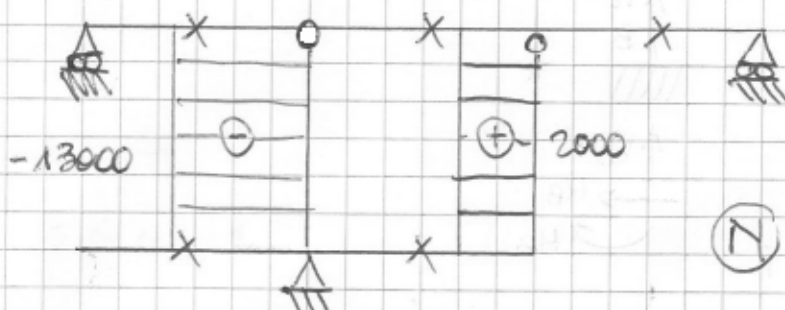
$$\rightarrow) H_c = 0$$

$$D \uparrow \text{ AUS AD} \quad \frac{ql^2}{2} - V_A \cdot l = 0 \quad V_A = \frac{ql}{2}$$

$$B \uparrow - \frac{ql}{2} \cdot 3l + \frac{q(3l)^2}{2} - \frac{ql^2}{4} - V_c \cdot 2l = 0 \quad V_c = \frac{11}{8} ql$$

$$\uparrow) \frac{ql}{2} + V_B + \frac{11}{8} ql - 3ql = 0 \quad V_B = \frac{9}{8} ql$$

$$E \uparrow \text{ AUS EDCF} \quad - \frac{ql^2}{4} - \frac{11}{8} ql^2 - N \cdot l = 0 \quad N = - \frac{13}{8} ql$$



$$N(z_1) = 0$$

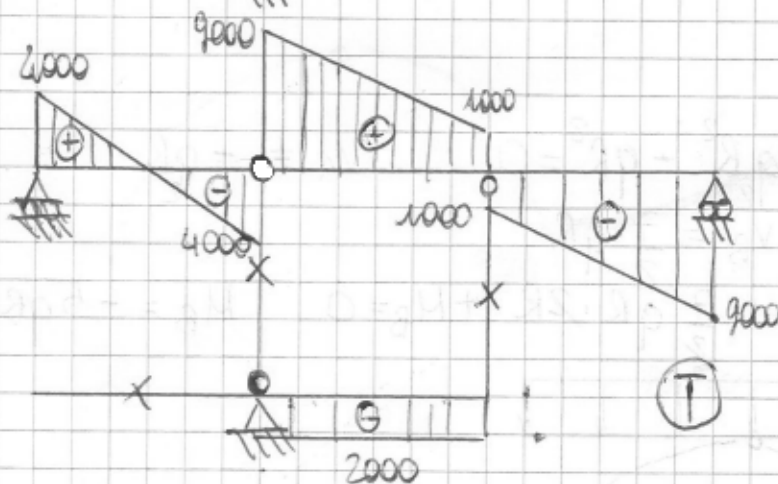
$$N(z_2) = 0$$

$$N(z_3) = 0$$

$$N(z_4) = 0$$

$$N(z_5) = \frac{13}{8} ql - \frac{11}{8} ql = \frac{ql}{4}$$

$$N(z_6) = 0$$



$$T(z_1) = 0$$

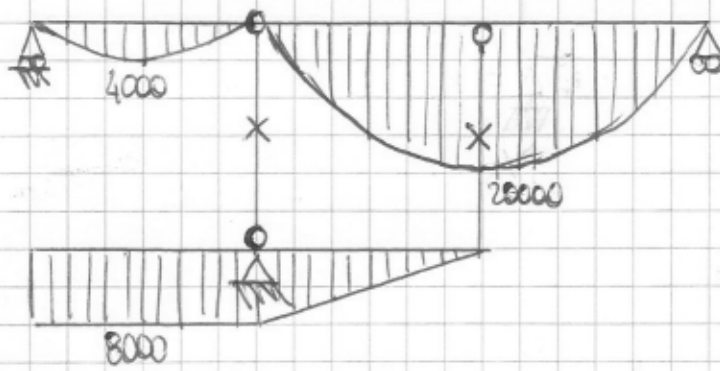
$$T(z_2) = \frac{ql}{2} - qz$$

$$T(z_3) = \frac{11}{8} ql - \frac{13}{8} ql = -\frac{ql}{4}$$

$$T(z_4) = -\frac{ql}{2} + \frac{13}{8} ql - qz$$

$$T(z_5) = 0$$

$$T(z_6) = -\frac{9}{8} ql + qz$$



$$M(z_1) = ql^2/4$$

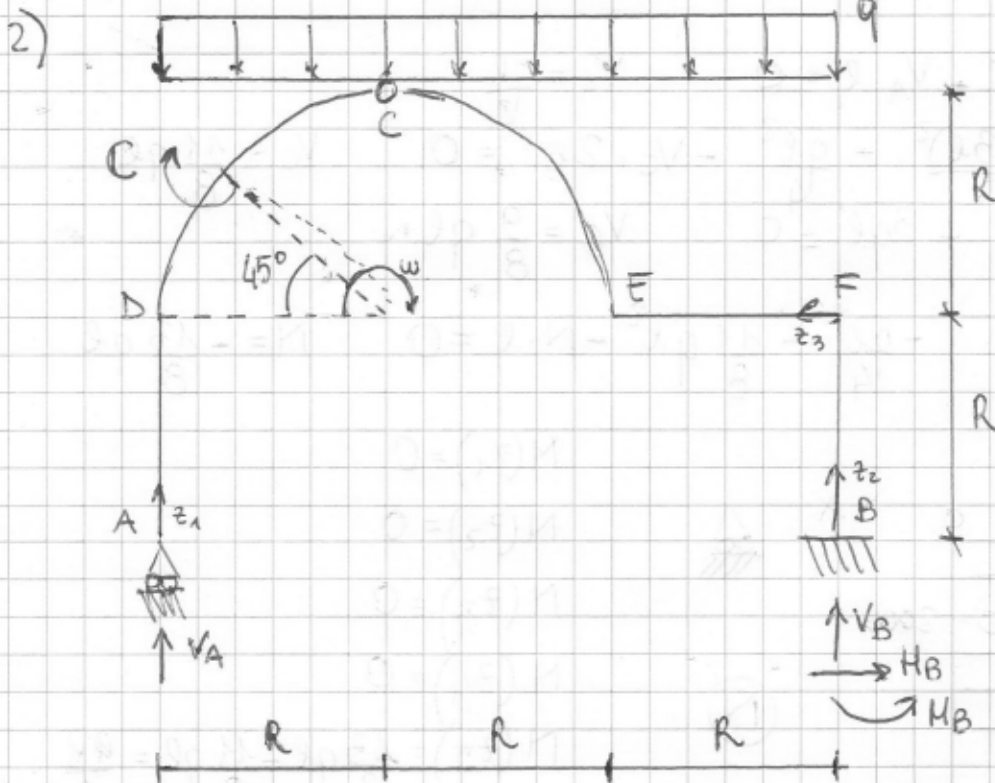
$$M(z_2) = \frac{ql}{2} - \frac{ql^2}{2}$$

$$M(z_3) = \frac{ql^2}{4} - \frac{ql}{4}z$$

$$M(z_4) = \frac{ql}{2}(l+z) - \frac{q(l+z)^2}{2} + \frac{13}{8}qlz$$

$$M(z_5) = \frac{ql^2}{4} - \frac{ql^2}{4} = 0$$

$$M(z_6) = \frac{9}{8}qlz - \frac{ql^2}{2}$$



$$q = 500 \text{ N/m}$$

$$R = 3 \text{ m}$$

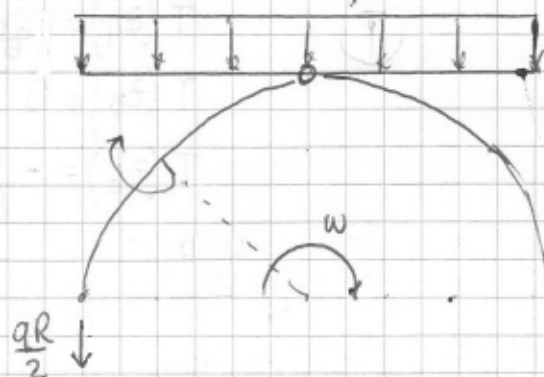
$$C = qR^2$$

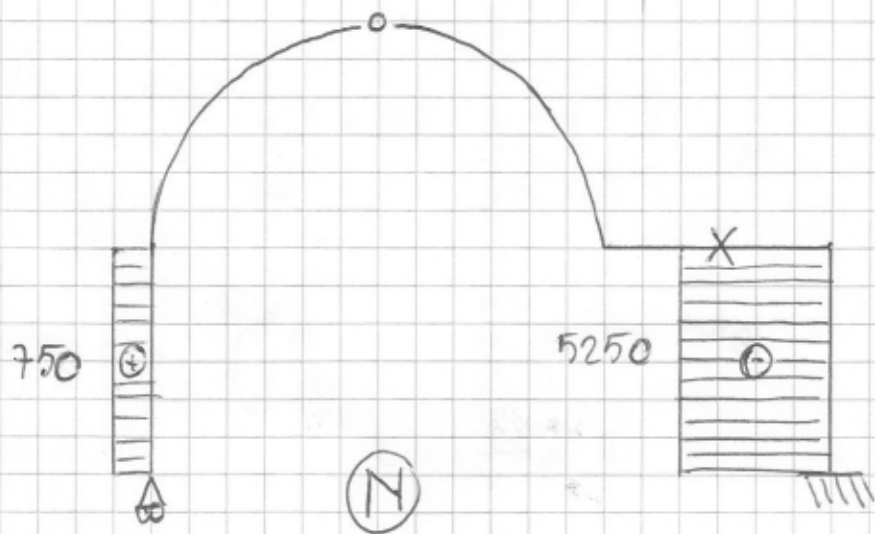
$$\Rightarrow H_B = 0$$

$$\text{C} \uparrow \text{ AUS CDA } -V_A \cdot R + \frac{qR^2}{2} - qR^2 = 0 \quad V_A = -\frac{qR}{2}$$

$$\uparrow \text{) } -3qR - \frac{qR}{2} + V_B = 0 \quad V_B = \frac{7}{2}qR$$

$$\text{C} \uparrow \text{ AUS CEFB } -2qR^2 + \frac{7}{2}qR \cdot 2R + M_B = 0 \quad M_B = -5qR^2$$





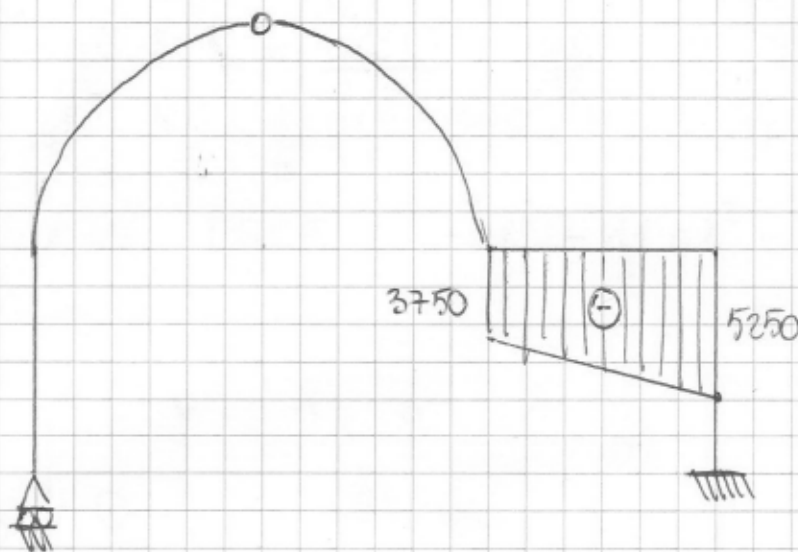
$$N(z_1) = \frac{qR}{2}$$

$$N(z_2) = -\frac{7}{2}qR$$

$$N(z_3) = 0$$

$$0 \leq w < \pi$$

$$H(w) = \frac{qR}{2} \cos w + qR(1 - \cos w) \cdot \cos w$$



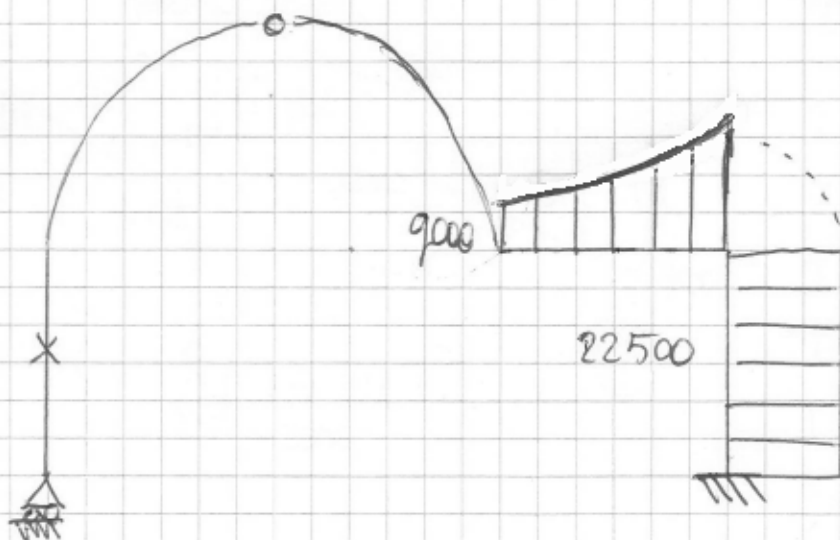
$$T(z_1) = 0$$

$$T(z_2) = 0$$

$$T(z_3) = -\frac{7}{2}qR + qz$$

$$0 \leq w \leq \pi$$

$$T(w) = \frac{qR}{2} \sin w + qR(1 - \cos w) \cdot \sin w$$



$$M(z_1) = 0$$

$$M(z_2) = 5qR^2$$

$$M(z_3) = -5qR^2 - \frac{qz^2}{2} + \frac{7}{2}qRz$$

$$0 \leq w < \pi/4$$

$$\pi/4 \leq w < \pi$$

$$M(w) = -\frac{qR^2}{2}(1 - \cos w) - \frac{qR^2(1 - \cos w)^2}{2}$$

$$M(w) = -\frac{qR^2}{2}(1 - \cos w) - \frac{qR^2(1 - \cos w)^2}{2} + qR^2$$