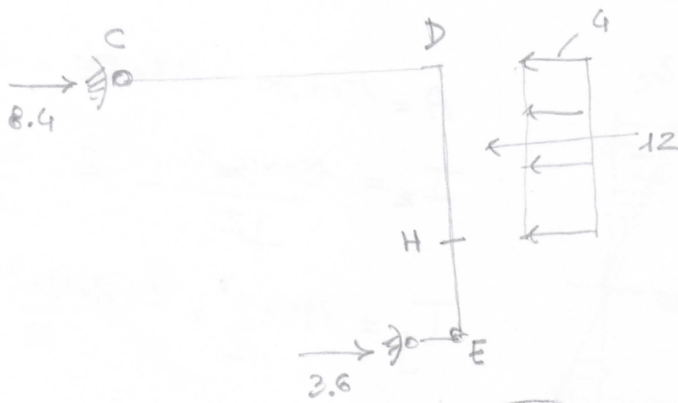
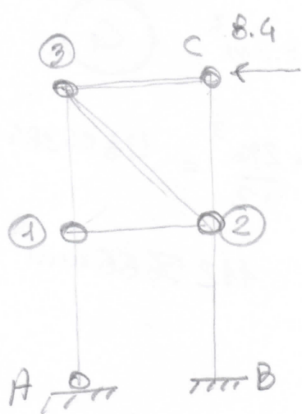
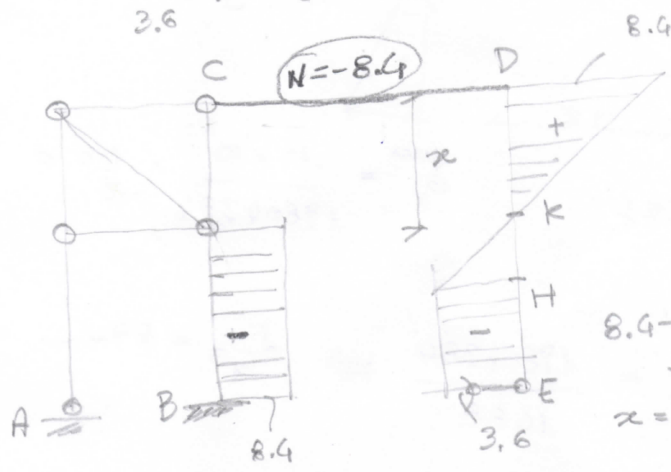
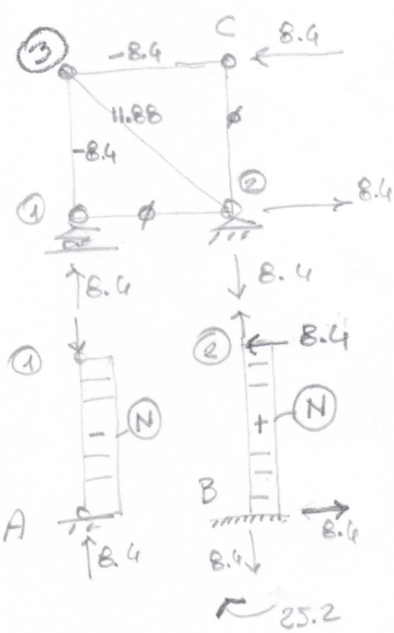


HB)  $M(z) = -5 \frac{z^2}{2}$

1



2

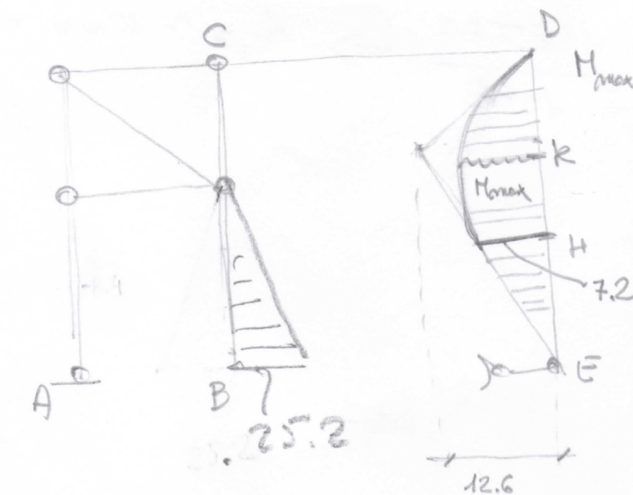


T(z)

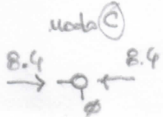
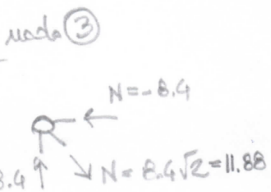
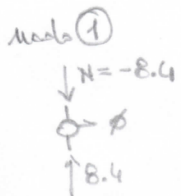
$$8.4 - 4x = 0$$

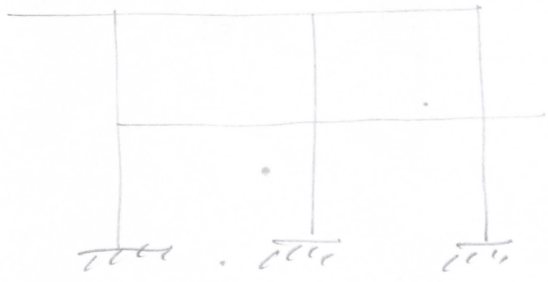
$$\downarrow$$

$$x = \frac{8.4}{4} = 2.1$$



$$M_{max} = 8.4 \times \frac{2.1}{2} = 8.82$$





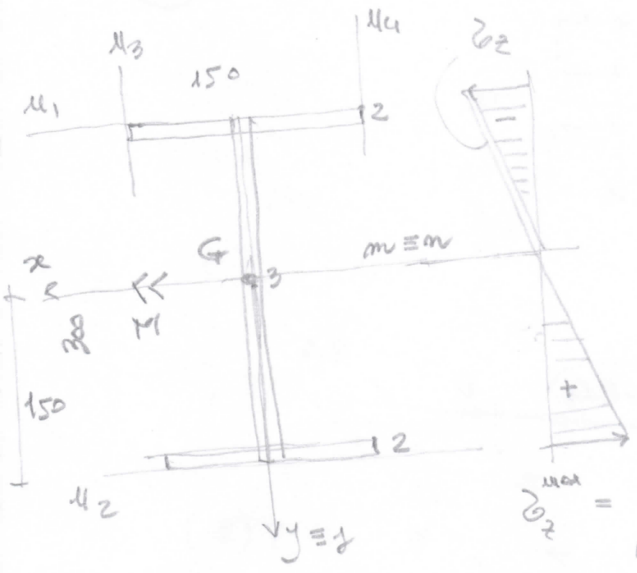
12 ip



15



15



$$A = 150 \times 300 - 147 \times 296 = 1488 \text{ mm}^2 \quad (C_1)$$

$$I_z = \frac{150 \times 300^3}{12} - 2 \times \frac{147 \times 296^3}{12} = 19804384 \text{ mm}^4$$

$$I_y = \frac{296 \times 3^3}{12} + 2 \times \frac{2 \times 150^3}{12} = 1125666 \text{ mm}^4$$

$$\sigma_z^{\max} = \frac{10 \times 10^6}{19804384} \times 150 = 75.7 \frac{\text{N}}{\text{mm}^2}$$

$$150 \times d_{C_1 G} = \frac{19804384}{1488} \Rightarrow d_{C_1 G} = 89 \text{ mm} = d_{C_2 G}$$

$$75 \times d_{C_3 G} = \frac{1125666}{1488} \Rightarrow d_{C_3 G} \approx 10 \text{ mm} = d_{C_4 G}$$