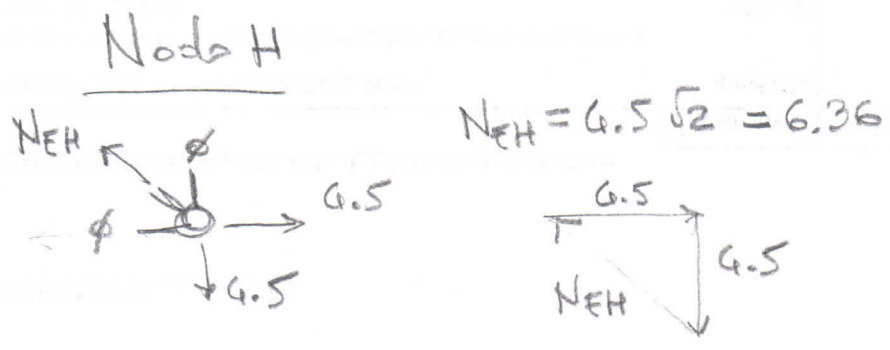
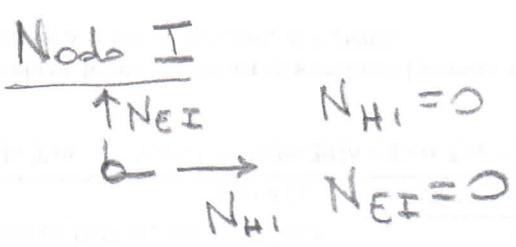
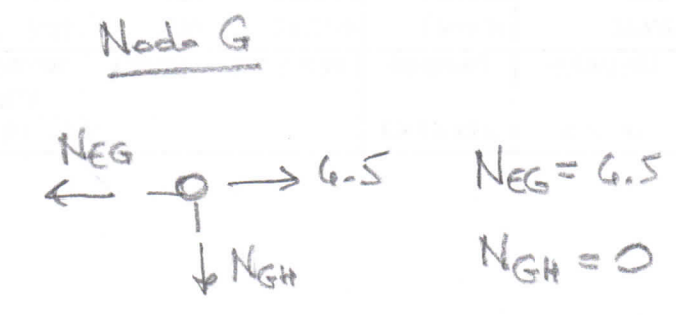
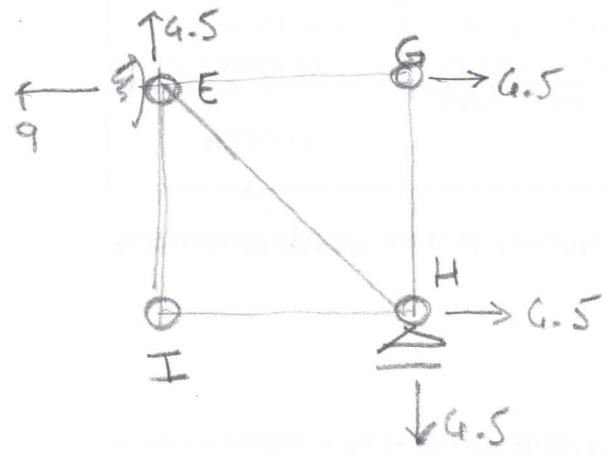
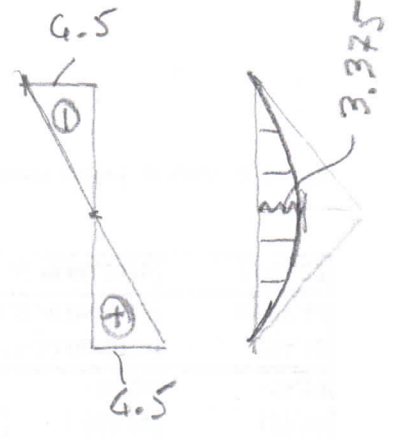
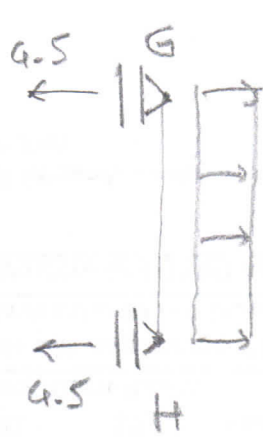
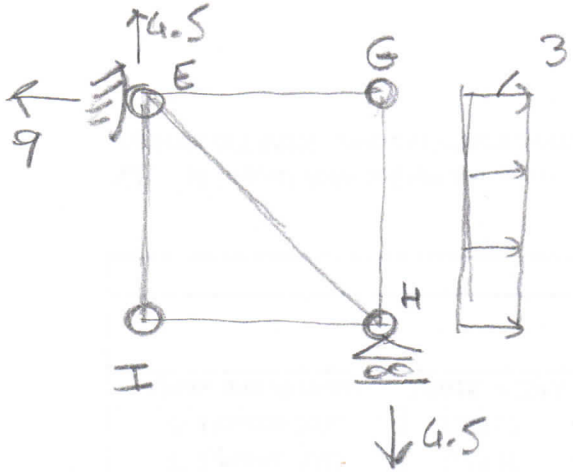
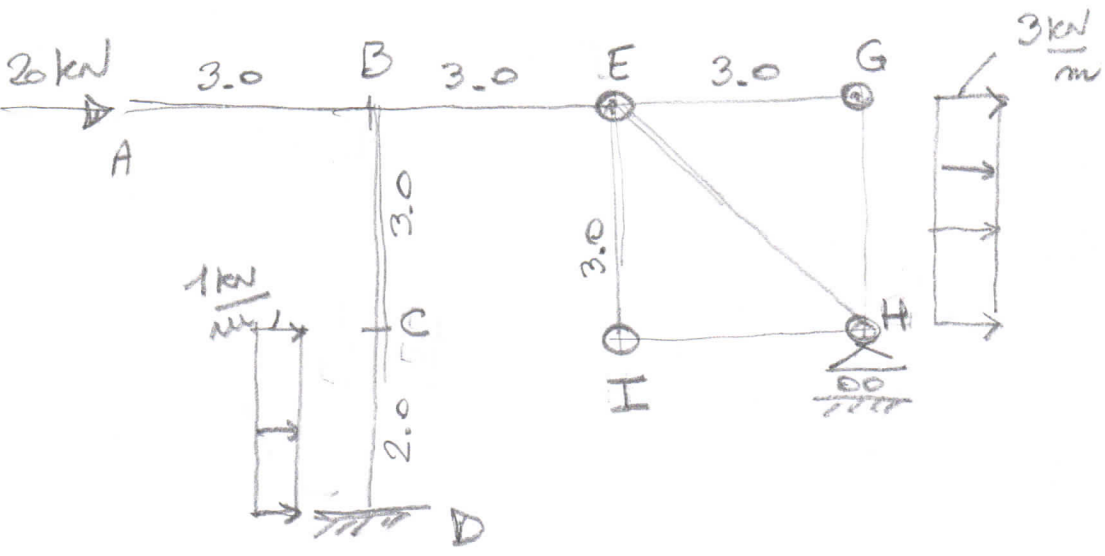


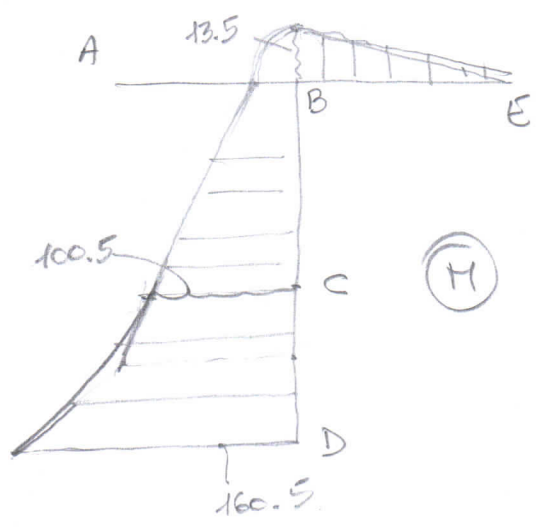
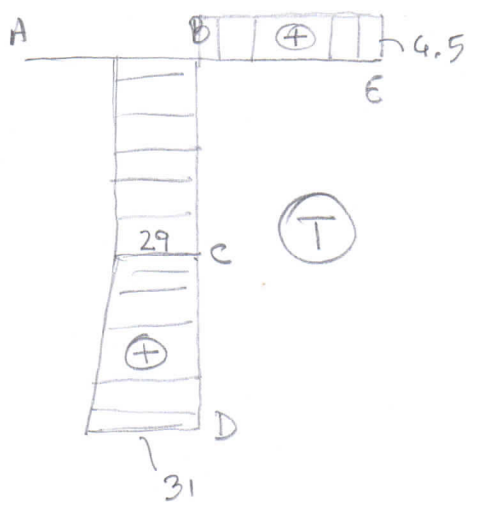
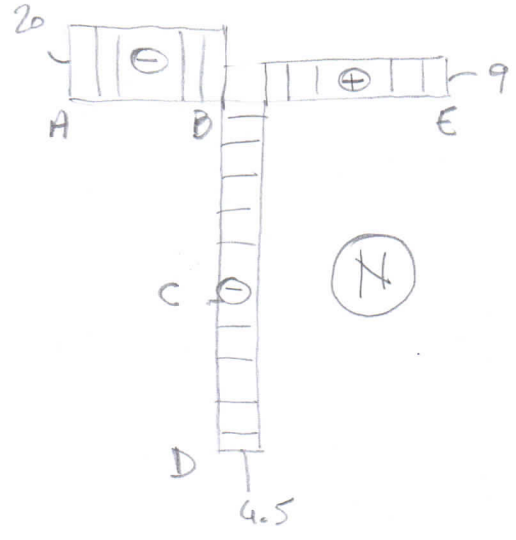
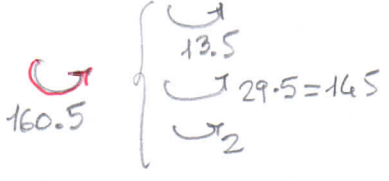
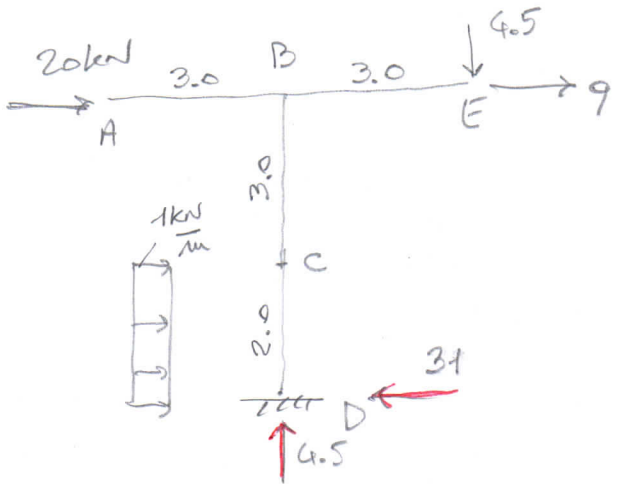
$$\frac{x}{8.4} = \frac{5}{20} \Rightarrow x = 2.1$$

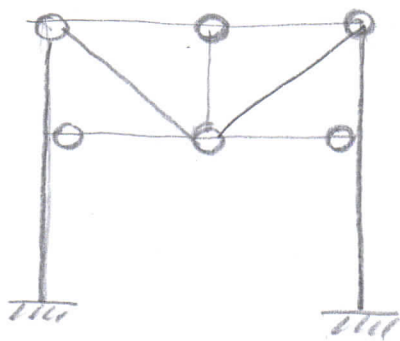
$$M_{max} = 8.4 \times \frac{2.1}{2} = 8.82 \text{ kNm}$$



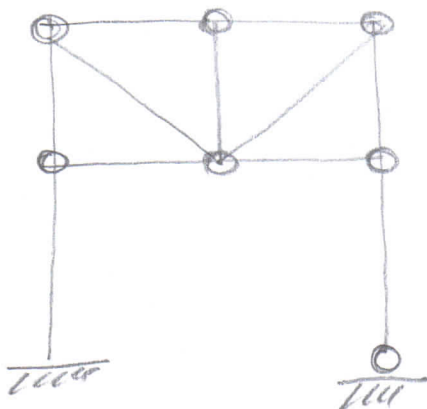
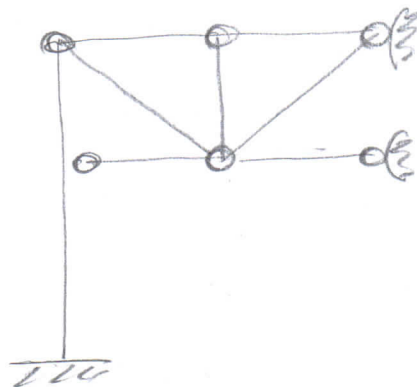
M_{max}



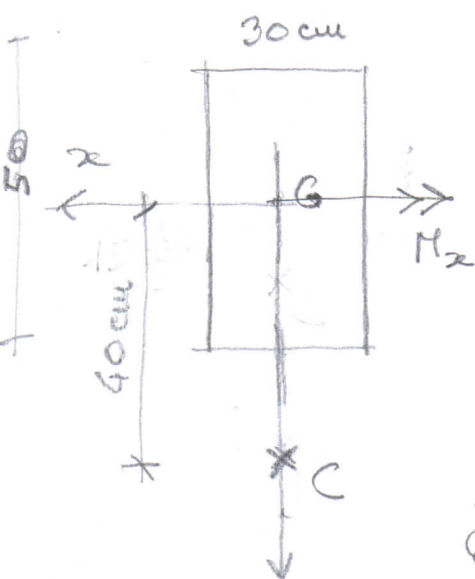




3ip



1S.



$$N_C = -200 \text{ kN}$$

$$N_G = -200 \text{ kN} \quad M_x = -200 \times 0.4 = -80 \text{ kNm}$$

$$A = 30 \times 50 = 1500 \text{ cm}^2$$

$$I_z = 30 \times \frac{50^3}{12} = 312500 \text{ cm}^4$$

$$\sigma_z^N = \frac{N}{A} = -1.33 \frac{\text{N}}{\text{mm}^2} \quad \sigma_z^M = -0.0256 y \frac{\text{N}}{\text{mm}^2}$$

$$u-u) y_u = -\frac{N}{A} \frac{I_z}{M_x} = -52 \text{ mm}$$

