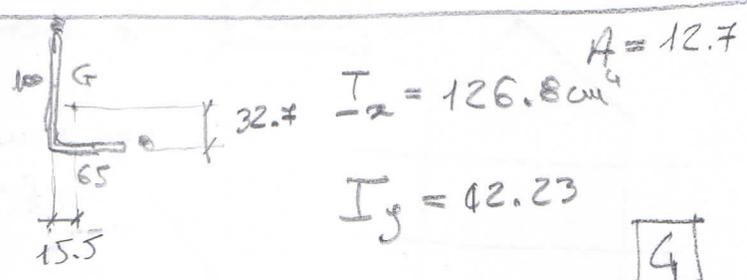
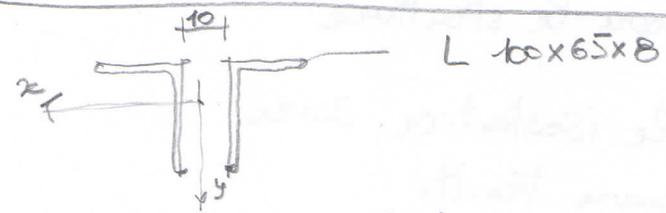


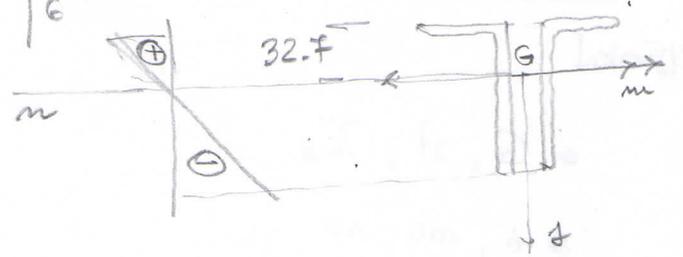
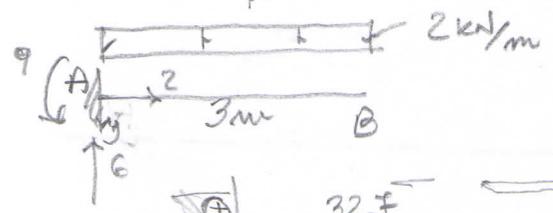
$$CD \text{ (from C)} \quad M(z) = -6 \frac{(1.5-z)^2}{2} = -6.45 + 9z - 3z^2$$

2: p 3



$$I_x = 126.8 \text{ cm}^4$$

$$I_y = 42.23$$



$$I_2 = 253.6$$

$$I_y = 2 \cdot [42.23 + 12.7 \cdot (1.55 + 0.5)^2] = 191.2 \text{ cm}^4$$

$$\sigma_z^{\text{max}} = \frac{-9 \times 10^6}{253.6 \times 10^4} \cdot (-32.7) = 116 \frac{\text{N}}{\text{mm}^2}$$

$$\sigma_z^{\text{min}} = \frac{-9 \cdot 10^6}{253.6 \times 10^4} \cdot (100 - 32.7) = -239 \frac{\text{N}}{\text{mm}^2}$$

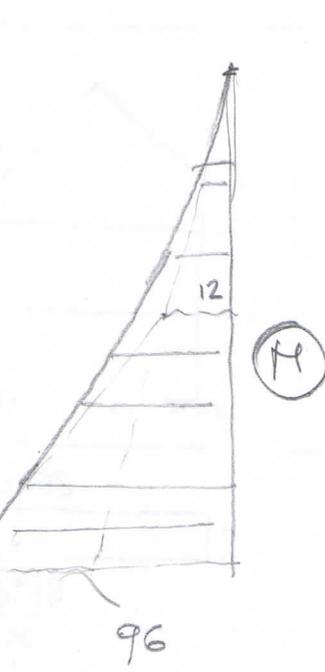
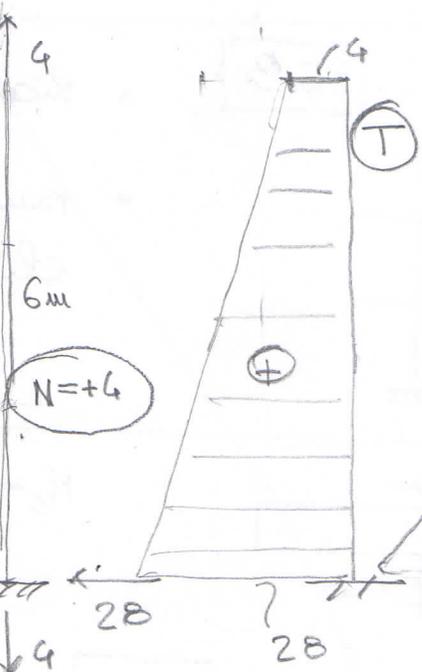
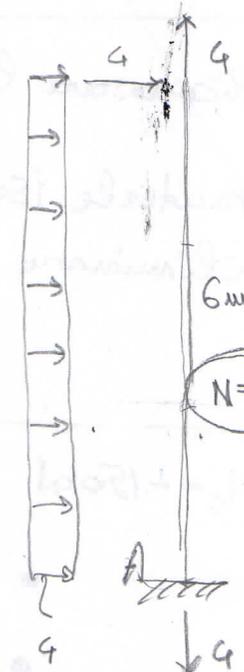
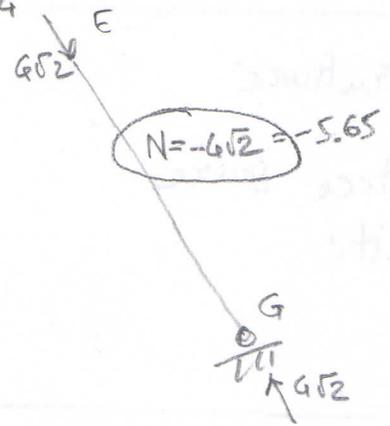
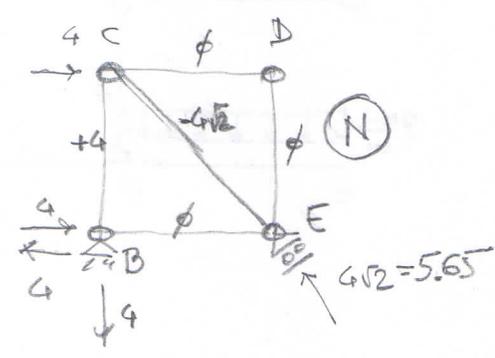
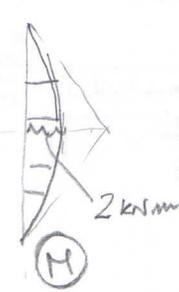
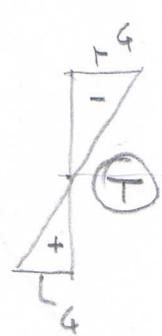
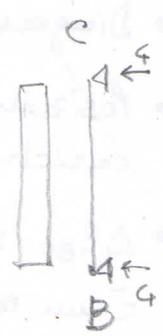
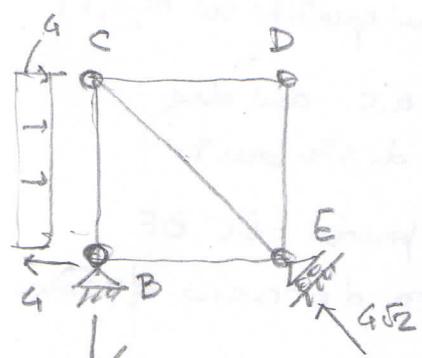
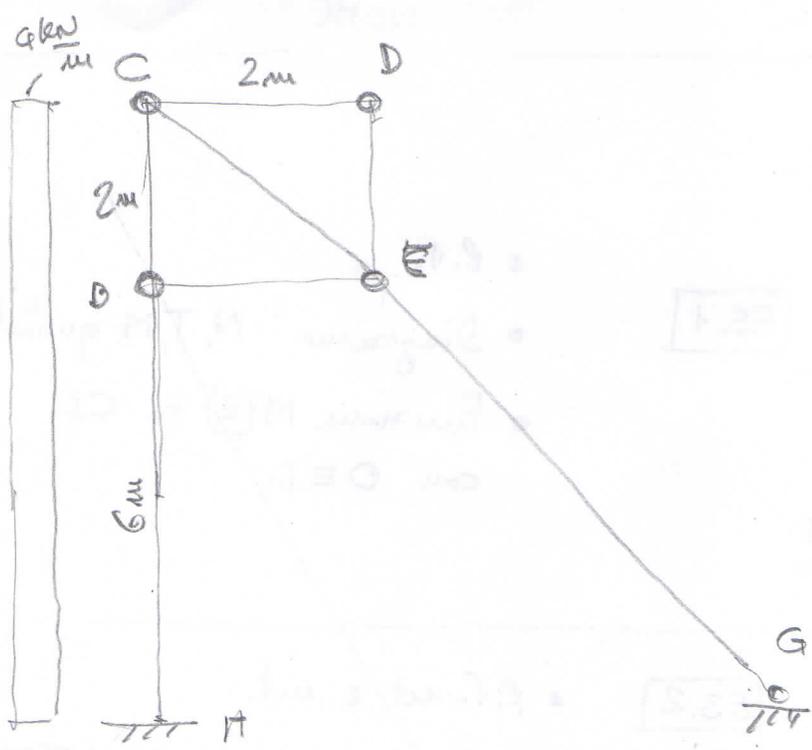
$$J_2 = 9.98 \text{ cm}^2$$

$$d_{GC_1} = \frac{9.98}{3.27} = 3.05 \text{ cm}$$

$$d_{GC_2} = \frac{9.98}{(10 - 3.27)} = 1.5 \text{ cm}$$

4

2a



$24 + 72 = 96$

23

26

