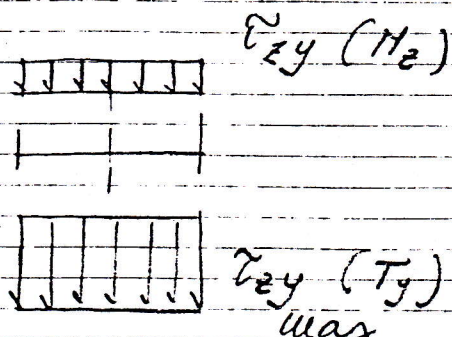


$$= - 24.78 \text{ kg/cm}$$

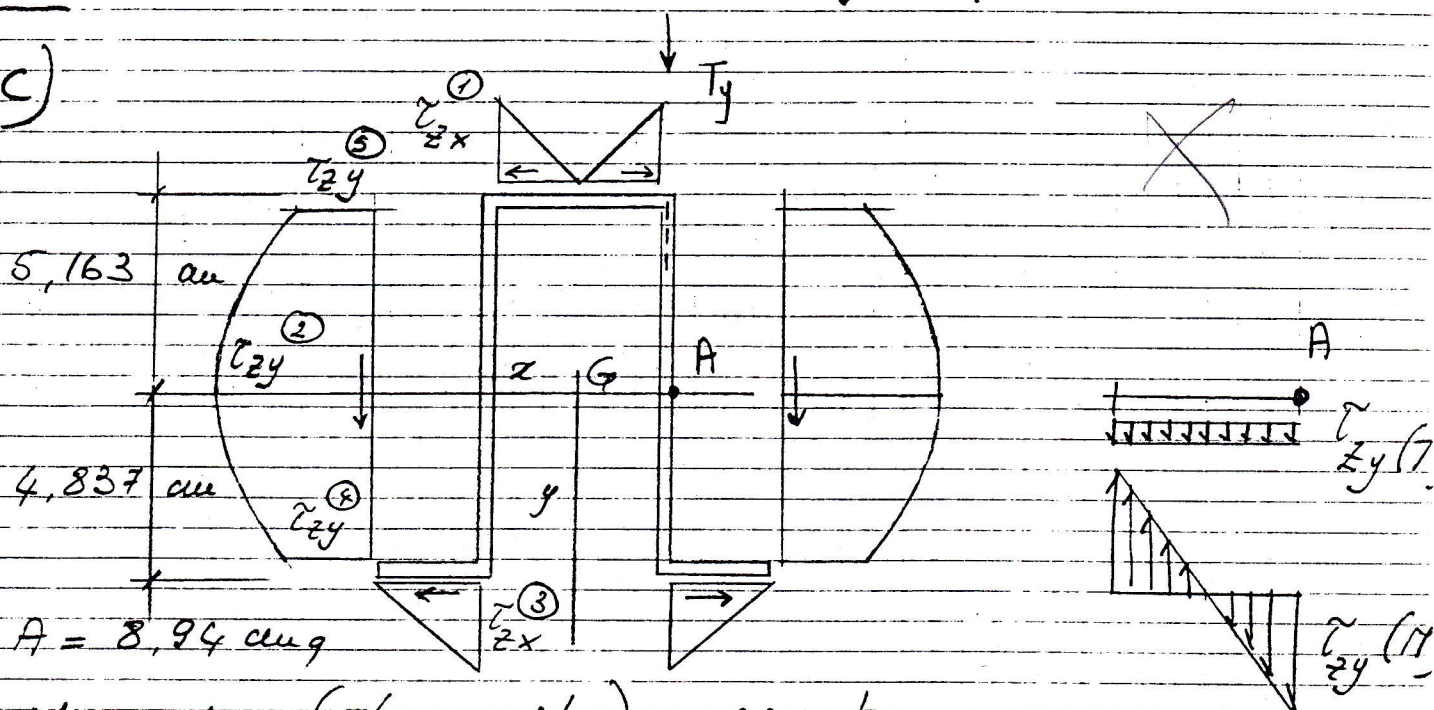
sella cada baricentrica :



$$\tau_z = \tau_{zy}(M_z) + \tau_{zy \max}(T_y) = 34.63 \text{ kg/cm}$$

$$\sigma_{id} = 34.63 \sqrt{3} \approx 60 \text{ kg/cm} < \sigma_{adm}$$

2.C)



$$M_z = 100 \cdot (5/2 - 0.3/2) = 235 \text{ kg cm}$$

$$\tau_{z \max} = \frac{3.5 M_z}{S^3 \sum_{i=1}^3 h_i} = \frac{3 M_z}{S^2 \sum_{i=1}^3 L_i} = \tau_{z \max}^i$$

$$\sum_{i=1}^3 h_i = (5 - 0.3) + (10 - 0.3) \cdot 2 + (3 - 0.15) \cdot 2 = 4.7 + 19.4 + 5.7 = 29.8 \text{ cm}$$

$$\tau_{z \max} = \frac{3 \cdot 235}{0.3^2 \cdot 29.8} = 262.86 \text{ kg/cm}$$