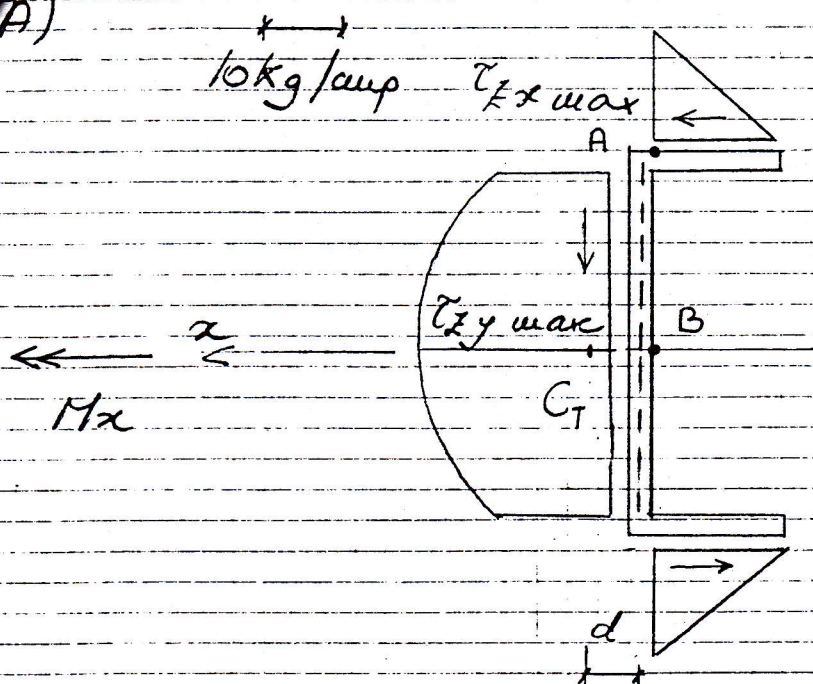


→ 400 kg/cm² (5)



$$\overline{T_{zs}} = \frac{T_y S_x}{L_x S}$$

$$S_a^{(1)} = (4 - 0,5) \cdot 0,5 \cdot (5 - 0,25) = -8,3125 \text{ cm}^3$$

$$\tau_{Zx \max} = \frac{100 \cdot 8,3125}{113,97 \cdot 0,5} = 14,7163 \text{ kg/emp}$$

$$S_x^{(2)} = S_x^{(1)} - 5 \cdot 0,5 \cdot 5/2 = -8,3125 - 6,25 = -14,5625 \text{ cm}^3$$

$$\tau_{zy \text{ max}} = - \frac{100 \cdot 14,5625}{112,97 \cdot 0,5} = - 25,78 \text{ kg/cm}^2$$

$$F = \tau_{zx \max} \cdot (4 - 0.5) \cdot 0.5 / 2 = 12.8767 \text{ kg}$$

$$N = F(k-s) = 12,8767 \cdot 9,5 = 122,3286 \text{ kg cu}$$

$$T_y \cdot d = M_z \quad \underline{d = \frac{M_z}{T_y} = \frac{122.3286}{100} = 1.22 \text{ cm}}$$

$$\sigma_z \max = \frac{M_{ze}}{I_x} \cdot \frac{h}{2} = \frac{20000 \cdot 5}{112,97} = 885,19 \text{ kg/cm}^2$$