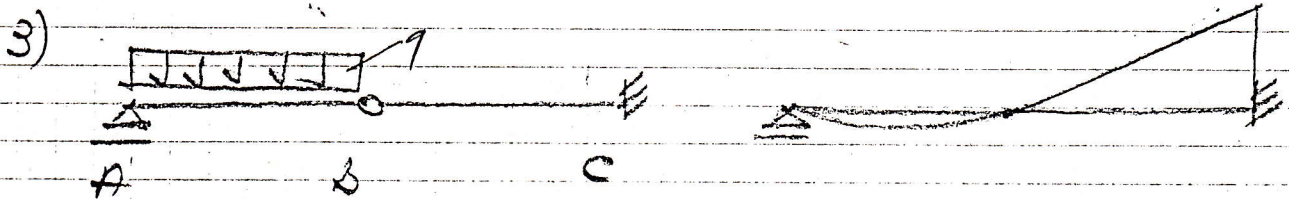


$$\sigma_{id}^{(2)} = \sqrt{\sigma_z^{(2)2} + 3\tau_{zy}^{(2)2}} = 563,76 \text{ kg/cm}^2 \quad (4)$$

$$\sigma_z^{(3)} = \frac{1643}{78,1} = 21,03 \text{ kg/cm}^2$$

$$\sigma_{id}^{(3)} = \sqrt{\sigma_z^{(3)2} + 3\tau_{zy \max}^2} = 629 \text{ kg/cm}^2$$

$$\sigma_{id}^{(3)} = \sigma_{id \max}$$



\overline{AB} :

$$\sigma'''' = -\frac{M(z)}{EI} = \left(-\frac{ql}{2}z + \frac{qz^2}{2}\right) \cdot \frac{1}{EI}$$

$$\sigma' = \left(-\frac{ql}{4}z^2 + \frac{qz^3}{6}\right) \frac{1}{EI} + C_1$$

$$\sigma = \left(-\frac{ql}{12}z^3 + \frac{qz^4}{24}\right) \frac{1}{EI} + C_1 z + C_2$$

\overline{BC} :

$$\sigma'''' = -\frac{ql}{2}z \cdot \frac{1}{EI}$$

$$\sigma' = -\frac{ql}{4}z^2 + C_3$$

$$\sigma = -\frac{ql}{12}z^3 + C_3 z + C_4$$

in \overline{AB} for $z=0$ $\sigma=0 \Rightarrow C_2=0$