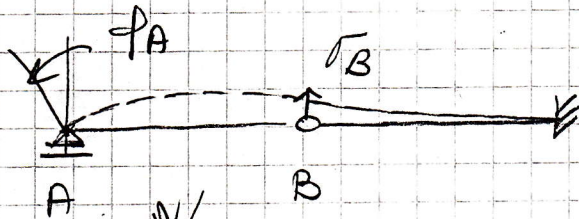


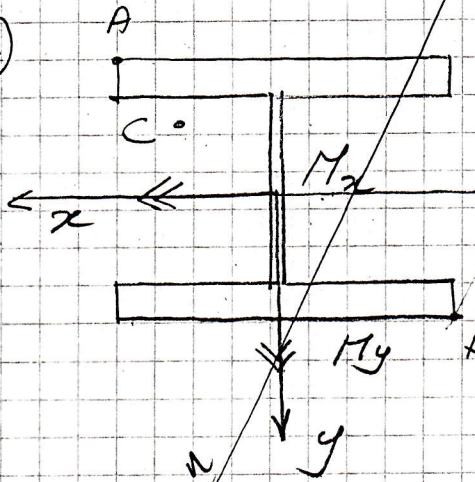
$$C_1 = -\frac{q\ell^3}{EI} + \frac{q\ell^3}{3EI} = -\frac{2q\ell^3}{3EI} \quad (6)$$

$$\frac{V(z=e)}{\tau_B} = \frac{q\ell^4}{2EI} - \frac{q\ell^4}{6EI} - \frac{2q\ell^4}{3EI} = \frac{q\ell^4}{6EI} (3-1-4) = -\frac{2}{6} \frac{q\ell^4}{EI} = -\frac{q\ell^4}{3EI}$$

$$\varphi_A = -\sigma'(z=0) = -C_1 = \frac{2q\ell^3}{3EI}$$



4)



$$\sigma_z = -\frac{N}{A} + \frac{M_x y}{I_x} - \frac{M_y x}{I_y} =$$

$$= -\frac{10000}{91} + \frac{60.000 y}{8091} - \frac{80.000 x}{2843} =$$

$$= -109,89 + 7,4156 y - 28,1392 x$$

$$M_x = 10.000 \cdot 6 = 60.000 \text{ kg cm}$$

$$M_y = 10.000 \cdot 8 = 80.000 \text{ kg cm}$$

$$\sigma_z = 7,4156 y - 28,1392 x - 109,89 = 0 \quad \text{ep. axe}$$

$$y = 0 \quad x = -\frac{109,89}{28,1392} = -3,9052 \text{ cm}$$

$$x = 0 \quad y = \frac{109,89}{7,4156} = 14,8187 \text{ cm}$$