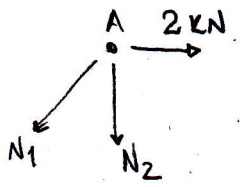
2013-PZ-Q3



$$\Sigma x = 0 \rightarrow -N_1 \times \frac{\sqrt{2}}{2} + 2 = 0 \therefore N_1 = 2\sqrt{2}\ KN$$

$$\Sigma y = 0 \rightarrow -N_1 \times \frac{\sqrt{2}}{2} - N_2 = 0 \therefore N_2 = -2\ KN$$

$$\sigma_1 = \frac{2\sqrt{2}}{5} = 0{,}57\ KN/cm^2 \qquad \sigma_2 = \frac{-2}{10} = -0{,}2\ KN/cm^2$$

$$\gamma_t = \frac{1}{0{,}57} = 1{,}76 \qquad \gamma_c = \frac{10}{0{,}2} = 50$$

ADOTA-SE

$$\gamma = 1{,}76$$