

ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ

$$4.1 \quad A = \frac{\pi \cdot d^2}{4} = \frac{3,14 \cdot 2^2 \cdot \text{cm}^2}{4} = 3,14 \text{ cm}^2$$

$$\sigma_{\alpha} = F_{\alpha} / A = 4710 \text{ daN} / 3,14 \text{ cm}^2 = 1500 \text{ daN/cm}^2$$

$$4.2 \quad \sigma_{\theta\rho} = F_{\theta\rho} / A = 6280 \text{ daN} / 3,14 \text{ cm}^2 = 2000 \text{ daN/cm}^2$$

$$4.3 \quad \varepsilon = \Delta l / l = 0,05 \text{ cm} / 70 \text{ cm} = 0,00071$$

$$4.4 \quad \varepsilon\% = \Delta l / l \cdot 100 = 0,05 \text{ cm} / 70 \text{ cm} \cdot 100 = 0,071$$