

**ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ**

**ΘΕΜΑ 4<sup>ο</sup>**

$$\alpha) \sigma_{\varepsilon\pi} = \frac{F_{\mu}}{A} \Rightarrow F_{\mu} = \sigma_{\varepsilon\pi} * A = 1000 \frac{daN}{cm^2} * 1,5 \text{ cm}^2 = 1500 \frac{daN}{cm^2}$$

$$\beta) \sigma_{\varepsilon\pi} = \frac{\sigma_{\theta\rho}}{\nu} \Rightarrow \sigma_{\theta\rho} = \sigma_{\varepsilon\pi} * \nu = 1000 \frac{daN}{cm^2} * 3 = 3000 \frac{daN}{cm^2}$$