

ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ

ΘΕΜΑ 4^ο

$$\alpha) \sigma_{\varepsilon\pi} = \frac{F}{A}$$

$$A = \frac{F}{\sigma_{\varepsilon\pi}}$$

$$A = \frac{2000 \frac{daN}{cm^2}}{100 \frac{daN}{cm^2}}$$

$$A = 20 \text{ cm}^2$$

β) Υπολογισμός του πάχους της διατομής (πλευρά α).

$$A = \alpha \cdot \beta$$

$$20 \text{ cm}^2 = \alpha \cdot 10 \text{ cm}$$

$$\alpha = \frac{20 \text{ cm}^2}{10 \text{ cm}}$$

$$\alpha = 2 \text{ cm}$$

$$\gamma) \nu = \frac{\sigma_{\theta\rho}}{\sigma_{\varepsilon\pi}} \Rightarrow \sigma_{\theta\rho} = \nu \cdot \sigma_{\varepsilon\pi} = 4 \cdot 100 \frac{daN}{cm^2} = 400 \frac{daN}{cm^2}$$