

ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ:

ΘΕΜΑ 4^ο

α)

$$V_{κυλ} = \frac{V_{ολ}}{8} \Rightarrow V_{κυλ} = \frac{6.280 \text{ cm}^3}{8} \Rightarrow V_{κυλ} = 785 \text{ cm}^3$$

β)

$$V_{κυλ} = \frac{\pi \cdot d^2}{4} \cdot l \Rightarrow l = \frac{V_{κυλ} \cdot 4}{\pi \cdot d^2} \Rightarrow l = \frac{785 \text{ cm}^3 \cdot 4}{3,14 \cdot 10^2 \text{ cm}^2} \Rightarrow l = \frac{3.140 \text{ cm}^3}{314 \text{ cm}^2} \Rightarrow$$

$$l = 10 \text{ cm}$$

γ)

$$\lambda = 1 + \frac{V_{κυλ}}{V_{συμπ}} \Rightarrow \lambda = 1 + \frac{785 \text{ cm}^3}{100 \text{ cm}^3} \Rightarrow \lambda = 1 + 7,85 \Rightarrow \lambda = 8,85$$