

ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ

ΘΕΜΑ 4^ο

4.1

$$C = \epsilon_{\alpha} \cdot \frac{S}{d} \Rightarrow C = 8,85 \cdot 10^{-12} \frac{F}{m} \cdot \frac{1m^2}{0,001m} \Rightarrow C = 8,85 \cdot 10^{-12} \frac{F}{m} \cdot 1000m \Rightarrow \\ \Rightarrow C = 8,85 \cdot 10^{-9} F = 8,85nF$$

4.2 $E = \frac{U}{d} \Rightarrow E = \frac{100V}{0,001m} \Rightarrow E = 100000 \frac{V}{m}$