

ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ

ΘΕΜΑ 4^ο

$$4.1 \quad E = \frac{U}{l} \Rightarrow E = \frac{100V}{0,02m} \Rightarrow E = \frac{10000V}{2m} \Rightarrow E = 5000 \frac{V}{m}$$

$$4.2 \quad \frac{W}{q} = E \cdot l \Rightarrow W = q \cdot E \cdot l \Rightarrow W = 1C \cdot 5000 \frac{V}{m} \cdot 0,02m \Rightarrow W = 100J$$

$$4.3 \quad E = \frac{F}{q} \Rightarrow F = E \cdot q \Rightarrow F = 5000 \frac{V}{m} \cdot 1C \Rightarrow F = 5000N$$