

ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 1

11. 07. 2014. - Рјешења

1.

$$A_{BA} = \frac{Q_p q}{2\epsilon_0} \left(\frac{\sqrt{5} - \sqrt{17}}{\sqrt{85}} \right) \text{ J.}$$

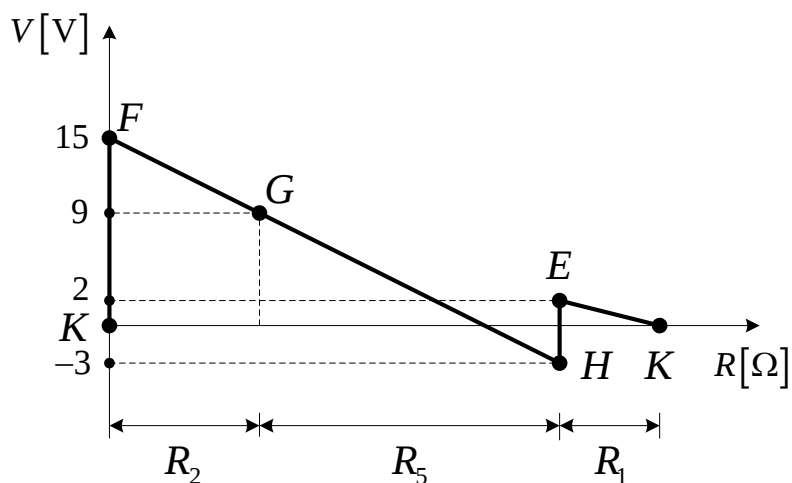
2.

$$\phi_{kk} = 7,536 \text{ Tm}^2.$$

3.

$$\alpha = \frac{2\pi}{\epsilon_r + 1}.$$

4.



5.

$$I_A^{(3)} = I_A^{(1)} + \Delta I_A^{(3)} = 3,48 \text{ A.}$$

6.

$$U_{C1}^{(0)} = 10 \text{ V}, \quad U_{C2}^{(0)} = 15 \text{ V}.$$

$$q = -4,5 \text{ }\mu\text{C}.$$