



ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 1

03. 09. 2018. - Рјешења

1.

$$Q' = a\sigma_0\pi.$$

2.

- a) $C_e \approx 111,3 \text{ pF},$
- б) $U_{\max} = 300 \text{ kV},$
- в) $W_{uk} = 5 \text{ J}.$

3.

$$R_2 = 22,5 \text{ cm}.$$

4.

$$R_1 = 100 \, \Omega, \quad R_2 = 200 \, \Omega.$$

5.

- a) $\Delta Q_1 = -62,5 \mu\text{C}, \quad \Delta Q_2 = 250 \mu\text{C},$
- б) $P_{E1}^{P1Z} = 187,5 \text{ W}, \quad P_{E1}^{P2Z} = 187,5 \text{ W}, \quad P_{E2}^{P1Z} = P_{E2}^{P2Z} = 0.$