



ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 1

09. 02. 2016. - Рјешења

1.

$$R_2 = 6 \text{ mm.}$$

2.

$$\sigma_{p3} = -\frac{\varepsilon_0 b}{c(b-c)} \Delta U_{12},$$

$$\sigma_{p4} = \frac{\varepsilon_0 c}{b(b-c)} \Delta U_{12}.$$

3.

a) $E'_0 = 5,4 \text{ MV/m}$ и $E_1 = 1,8 \text{ MV/m}$.

б) $U'_c = 6,67 \text{ kV}$.

4.

$$\frac{R_1}{R} = 1,75, \quad \frac{R_1}{R} = 1,5.$$

5.

$$P_g = 520 \text{ mW.}$$

6.

$$R_5 = 800 \, \Omega.$$