



ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 2

13. 10. 2014. - Рјешења

1.

$$\Phi_o = 0.$$

2.

$$\Delta I = -\frac{Rq\pi}{\mu_0 a (3\ln 3 - 2\ln 2 - 1)}.$$

3.

a) $W_{mprov} = 2,75 \text{ mJ}.$

б) $L = 55 \text{ } \mu\text{H}.$

в) 28%

4.

$$R_x = \frac{1}{\omega^2 RC^2} \text{ и } L_x = \frac{1}{2\omega^2 C}.$$

5.

$$\Delta \underline{S}_7 = 2 \text{ VA}.$$

6.

$$\underline{I}_1 = (3\sqrt{3} - j) \text{ A}, \underline{I}_2 = (\sqrt{3} + j3) \text{ A} \text{ и } \underline{I}_3 = -(4\sqrt{3} + j2) \text{ A}.$$

$$\underline{U}_V = 346,41 \text{ V}.$$