



ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 2

17. 02. 2020. - Рјешења

1.

$$I_1 = \frac{3 - \sqrt{2}}{\pi} I.$$

2.

$$L_{12} = L_{21} = 6,45 \mu\text{H}.$$

3.

$$R_p = |Z_T| = 50\sqrt{2} \Omega,$$
$$P_{p\max} = 51,77 \text{ W}.$$

4.

$$\underline{I}_1 = (3\sqrt{3} - j) \text{ A},$$

$$\underline{I}_2 = (\sqrt{3} + j3) \text{ A},$$

$$\underline{I}_3 = -(4\sqrt{3} + j2) \text{ A},$$

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