



## ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 2

06. 09. 2013. - Рјешења

1.

$$I_1 = 2,25 \text{ A.}$$

$$\beta \approx 0,66\pi \text{ (rad).}$$

2.

$$\Phi_o = 7,85 \mu\text{Tm}^2$$

3.

$$W'_m = 316,44 \text{ pJ/m.}$$

4.

$$C = 1/(\sqrt{6}R\omega).$$

$$|U_2|/|U_1| = 1/29.$$

5.

$$\underline{I}' = (-0,25 + j0,75) \text{ A.}$$

$$\underline{S}_4 = j1 \text{ VA.}$$

6.

a)  $\underline{I}_N = (-0,26 - j0,18) \text{ A,}$

$$\underline{Z}_N = (6,65 + j0,99) \Omega$$

б)  $\underline{Z}_T = \underline{Z}_N = (6,65 + j0,99) \Omega,$

$$\underline{E}_T = (-1,58 - j1,43) \text{ V.}$$