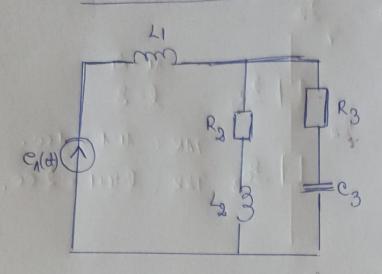
Gaujaneanu Ricolata Morica, 4140

Test 2 seminar



$$L_{1} = \frac{6420}{47} \text{ mH}$$

$$C_{3} = \frac{10000}{1056} \mu\text{F}$$

$$= C_{3}$$

$$L_{2} = \frac{10560}{121} \text{ mH}$$

$$R_{2} = 9652, R_{3} = 9652$$

e(4) = 2142. 12. air (1100 t + 8. 17) [v] w=1100 read/s

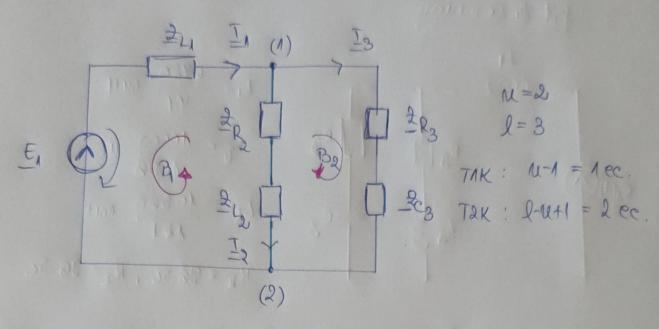
a)
$$2h = jwh = j \cdot 1000 \cdot 6420 \cdot 1000 = \frac{672j}{7} = 96j$$

$$2c_{3} = \frac{-j}{wc_{3}} = \frac{-j}{1000} \cdot 1000 \cdot 1000 = \frac{672j}{14} = 96j$$

$$\frac{2}{2} = jwl_2 = j + 100. + 0560. + 0560. = 96j$$

$$E_1 = 2112 (\cos 2\pi + j \sin 2\pi) = 2112$$

Gayjaneanu Nicolata Monica, 4140



$$\Gamma(S_1) = \Gamma_2 + \Gamma_3$$

$$(31)$$
: $E_1 - I_2 (2L_2 + 2R_2) - I_1 \cdot 2L_1 = 0$

$$(B_2)$$
: $\pm 3(2R_3 + 2c_3) - 52(2L_2 + 2R_2) = 0$.

$$B_2: (96-96j) = 3 = (96j+96) = (1-j) = 3 = (1+j) = 3$$

$$\Rightarrow \underline{I}_3 = \frac{\Lambda + j'}{\lambda + j'} \cdot \underline{I}_2 \Rightarrow \underline{I}_3 = \frac{(\Lambda + j')^2}{\lambda + 1} \underline{I}_2 \Rightarrow$$

$$= \sum_{3} \frac{1}{3} = \frac{2j}{2} = \frac{1}{2} = \frac{1}{$$

Gayoneami dicaleta Monica, 4140

$$I_1 = I_2 + I_3 \Rightarrow DWW I_2(J-1) - 22J = I_2 + JI_2 \Rightarrow I_2 = I_2 + JI_2 \Rightarrow I_2 = I_2 + JI_2 \Rightarrow I_2 = I_2 = I_3$$

I3 = j - (-11j) = 11A

 $I_1 = N_1 \cdot (1-1) - 22j = 11 + 11j - 22j = 11 - 11j$ $I_2 = N_1 \cdot (1-1) - 22j = 11 + 11j - 22j = 11 - 11j$

 $I_1 = 24 - 24j$ (A) $I_2 = \frac{14}{4} = \frac{14}{4} = \frac{14}{4} = \frac{14}{4}$ $I_3 = \frac{14}{4} = \frac{14}{4$

 $I_2 = -\lambda i j (A)$ $f_2 = \operatorname{arctg} \frac{-\lambda i}{\varpi} = -\frac{\overline{u}}{2}$ $u_2(t) = \lambda i (2 \operatorname{aiu} (\operatorname{Moot} - \frac{\overline{u}}{2}))$

 $\frac{2}{3} = M. \{A\}$ $\frac{1}{3}(d) = 11\sqrt{2} \text{ riv (Mood)}$ $\frac{1}{3} = 0$

Conjuncame Micoleta Monica, 414D

6) Bilontie putorilor complexe:

Putere obserbità: 50, = 21, - I?, Sa= (28+212). I2

Sa= (2R3+2c3). I3

23 404

 $S_{\alpha_1} = 96j \cdot (11-11j)^2 = 96 \cdot 11^2 \cdot j(1-j)^2 = 10656 \cdot 2 = EVA$

Saz = (96j+96). (-13)2 = 96-112(1+j) (-1) FMGABA

5a3= (96+96j) - 112 = 96·112 (1-j)

5 = San + San + San = 96-11-2(1+j) = 2323(1+j)

Putere debitatà: St. = E, . I,*

Sd, = 2112. (11+11j) = 23232 (1+j)

Sa = Sol

Gayameanu Micelota Monica, 414D

c) Patoule 3, 5, P, Q obsorbite de dipolal posit ce formas 2à Coluve 2.

 $S_{q_0} = (2R_0 + 2L_2) \cdot I_2^2 = (96j + 96) \cdot (-Mj)^2 =$ $= 96(1+j) \cdot 121j^2 = -96 \cdot 121(1+j) =$

= DISDER - MG16 (1+j) = -11616 - 11616j [VA]

Sa= 14616 52 [VA] ((-MCAG)2+(-MCAG)2)

Paz = +11616 [W] (Puterea octiva poritiva)

\$ Qa3 = -41616 [vor]