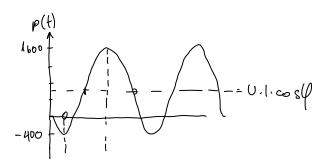


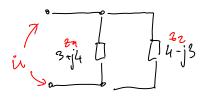
tremitra snaga trosila
$$p(t) = U \cdot l \cdot \cos(l - U \cdot l \cdot \cos(2wt - q))$$
konstantan dio vranonski ovisan dio

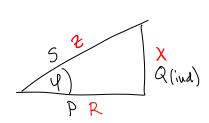


$$P_{M} = U \cdot |\cos U| = \frac{P_{MAX} + P_{MIN}}{2}$$

$$= \frac{1600 - 400}{2} = 600$$

20
$$V = 0$$
 $P = S = UI = P_{ST} = 1000 \text{ VA} \longrightarrow Q = 0 \text{ VAr}$ (take debyes S)
20 $Q = \sqrt{S^2 - P^2} = 800 \text{ VAr}$





$$2uk = 2\pi ||22 = \frac{24.22}{21+22} = \frac{(3+j4)(4-j3)}{3+j4+4-j3} =$$

$$= \frac{12+j16-j9+12}{7+j} =$$

$$= \frac{24+j7}{7+j} \cdot \frac{7-j}{7-j} =$$

$$= \frac{168+j49-j24+7}{49+1} =$$

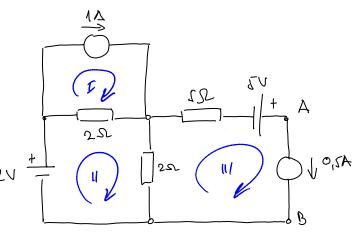
$$= \frac{175+j25}{56} \cdot \frac{1}{25} = \frac{7}{2}+j\frac{1}{2}$$

$$\Rightarrow tg = \frac{1}{2} \Rightarrow tg = \frac{1}{2} \Rightarrow tg$$

$$P = \frac{1}{2} \Rightarrow tg$$







$$II: 2 = l_{11}(2+2) - l_{111} \cdot 2 - l_{1} \cdot 2$$

$$III: l_{111} = 0,5A$$

$$2 = 1_{11} \cdot 4 - 95 \cdot 2 - 1 \cdot 2$$

$$I_{11} = \frac{\sqrt{1}}{4} = 1,254$$

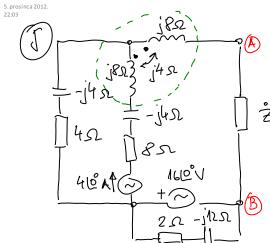
UAB =?

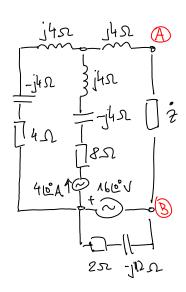
$$\int V = U_{AB} + I_{(1)} \cdot \int SZ + (I_{a1} - I_{11}) \cdot 2SZ$$

$$\int = U_{AB} + O_{1}S \cdot \int f (O_{1}S - I_{1}ZS) \cdot Z$$

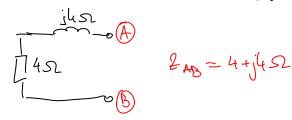
$$U_{AB} = \int -2 \int f + O_{1}F \cdot Z$$



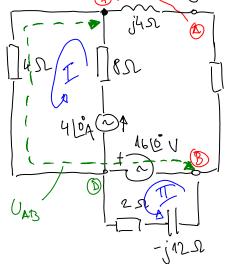




- provacun Theremnove impedancije (smyn izvor se odspajaja, naponstu mon se bratho spajaju)



provacun Thevenuovog napona (just je odspojan pa @ ide s megove lijeve strame)



nadomegna shema: E7, 27

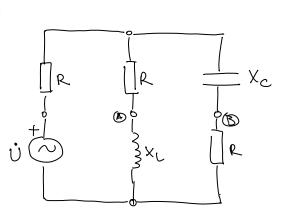
$$\dot{z} = \dot{z}_{1}^{*} = 4 - j4$$

Re $\dot{z}_{2}^{*} = R_{\text{max}} = 4 \Omega$
 $\dot{z}_{\text{ulc}} = \dot{z}_{1}^{*} + \dot{z}_{2}^{*} = 8 \Omega$
 $i = \frac{\dot{y}_{1}}{\dot{z}_{1}^{*}} = \frac{3210^{\circ}}{R_{15}^{\circ}} = 4^{\circ}$

$$2 = 2i^* = 4 - i4$$

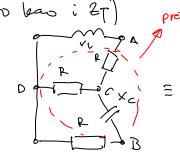
Re $12i = R_{\text{max}} = 45$
 $1 = \frac{i}{2}i = \frac{3210^2}{810^2} = 410^2 A = 4A$

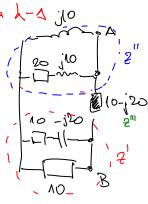




$$\sum_{n=3}^{\infty} \sum_{n=3}^{\infty} \sum_{n$$

1° impedancija En (1810 leas i 27)



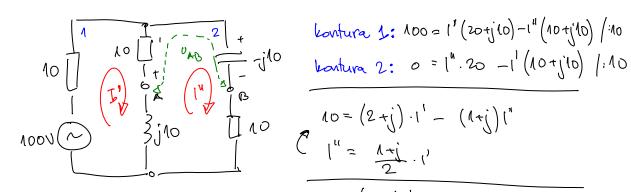


 $2'' = j10||(20+j10) = \frac{j10(20+j10)}{20+j10} = \frac{j0(-10+j20)}{10(2+j2)} =$ $= \frac{-5+i10}{1+i} \cdot \frac{1-i}{1-i} = \frac{10-5+i5+i70}{2} = 2.5+i7.5$

$$2' = (10-j20)||10 = \frac{10(10-j20):20}{20-j20:20} = \frac{5-j10}{1-j} \cdot \frac{1+j}{1+j} = \frac{5-j10+j5+10}{2} = 7.5-j2.5$$

$$\frac{2}{20} = (2' + 2'') ||2'''| = (2,5 + j2,5 + j2,5 - j2,5)||(2''' = (10 + j5))||(10 - j20)||$$

$$= \frac{50(2 + j) \cdot (1 - j2) \cdot 5}{20 - j15} = \frac{10(4 - j3)}{4 - j3} = 1052 = 27 = 20$$



$$\dot{U}_{AB} = 10(1''-1')-j10.1''$$
 $\dot{U}_{AB} = -25+j25-j25+25$
 $\dot{U}_{AB} = 0 = E_T$

$$l_{N} = \frac{E_{T}}{2} = \frac{0}{10} = 0 \text{ A}$$

$$10 = (2+i) \cdot 1' - (1+i) \cdot 1''$$

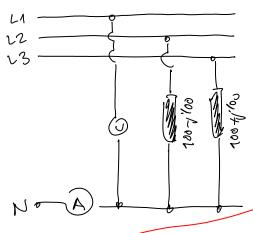
$$1'' = \frac{1+i}{2} \cdot 1'$$

$$10 = (2+i) \cdot 1' - \frac{1+i}{2} \cdot (1+i) \cdot 1'$$

$$10 = (2+i) \cdot 1' - \frac{1}{2} \cdot (1+i) \cdot 1'$$

$$21' = 10 = 2 \cdot 1' = 5$$

$$1'' = 2 \cdot 5 + \frac{1}{2} \cdot 5$$



$$\frac{2}{2}_{1} = 220 \, \text{L}^{\circ}$$
 $\frac{1}{2}_{2} = 100 \, \text{L}^{\circ} \, \text{L}^{\circ}$
 $\frac{1}{2}_{3} = 100 \, \text{L}^{\circ} \, \text{L}^{\circ}$
 $\frac{1}{2}_{3} = 220 \, \text{L}^{\circ} \, \text{L}^{\circ}$
 $\frac{1}{2}_{3} = 220 \, \text{L}^{\circ} \, \text{L}^{\circ}$

$$i_{1} = \frac{\dot{0}_{1}}{\dot{2}_{1}} = 0 \text{ A}$$

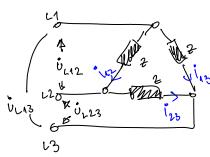
$$i_{2} = \frac{\dot{0}_{2}}{\dot{2}_{3}} = 1,1\sqrt{2} \left[-\frac{7}{1}\right]^{\circ} = 0,4 - \frac{1}{1},5$$

$$-i_{3} = \frac{\dot{0}_{3}}{\dot{2}_{3}} = 1,1\sqrt{2} \left[-\frac{7}{1}\right]^{\circ} = 0,4 + \frac{1}{1},5$$

$$\sum_{i=1}^{3} \frac{\dot{0}_{3}}{\dot{2}_{3}} = 0,8$$

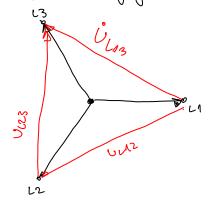
$$\sum_{i=1}^{3} \frac{\dot{0}_{3}}{\dot{0}_{3}} = 0,8$$





UL12 = 380 [240° UL13 = 380 1150° V123 = 380 190°

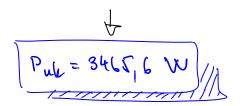
-o forzorski dijagram rzvora:



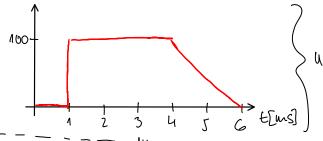
2-80-160 = 100 (-36,87

1,2 = 3,8 (246,87 -> S12 = Vinit = 1444 [-36,87" = 1156,21-j866,4] 1 13 = 9,8 (186,87 -> S13 = 0013.1 = 1444 (-36,87 = 14552 1-1866,4 1 23 = 3, 8 (126,87 -> S23 = 623.123 = 1444 (-36,87=115)21-1866,41

Suk= ZP + ZQ = 3465,6 - 12599,2 [VA]



(labori vaciu: buduoi da je trosilo sittétriono ioracunas S u samo jednoj grani trokuta, naster Regs/ koji je pednak djelatnoj snasi P i pommoziš ga sa 3. Tales dobijes ukupru djelahu snagu)



$$u_{1}(t) = 0$$

$$100 + u_{1}(t) = 0$$

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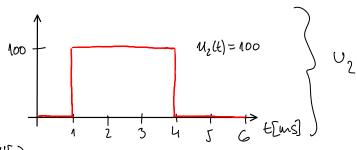
$$1 = 0$$

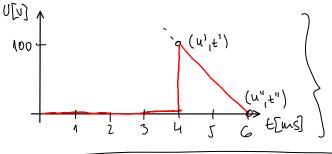
$$1 = 0$$

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$$W_{2ef} = \sqrt{\frac{1}{6}} \int_{4}^{4} u_{2}(t)^{2} dt$$

$$W_{3ef} = \sqrt{\frac{1}{6}} \int_{4}^{6} W_{3}(t) dt$$

$$u_{3}(t) - \text{pedvadiba} \quad \text{prava}$$

$$lno = \text{dvije tocke}$$

$$u_{3}(t) - u' = \frac{u'' - u'}{t'' - t'} (t - t')$$

$$u_{3}(t) - 100 = \frac{0 - 100}{6 - 4} (t - t')$$

$$u_{3}(t) = -10t + 300$$

$$M_{2ef}(t) = \sqrt{\frac{1}{6} \cdot \frac{400^{2}}{100^{2}}} = \sqrt{\frac{1}{6} \cdot 100^{2}} (4-1) = 100 = 100 = 100$$

$$u_{3\ell+}(t) = \sqrt{\frac{1}{6}} \int_{4}^{6} \left[2500t^{2}-30000t+90000\right]dt =$$

$$= \sqrt{\frac{1}{6} \left[2500 \int_{4}^{6} t^{2} dt - 30000 \int_{4}^{6} t dt + 90000 \int_{4}^{6} dt \right]}$$

$$= \sqrt{\frac{1}{6} \left(2 \cos \left(\frac{6^3}{3} - \frac{4^3}{3} \right) - 30000 \left(\frac{6^2}{2} - \frac{4^2}{2} \right) + 90000 \left(6 - 4 \right)}$$

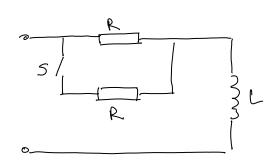
$$=\sqrt{\frac{1}{6}\cdot 66667}=33,33$$

uef = Juit + uzef + uzef = Jo2+ (JoVz)2+33,332 = 78,1736 V

- 20 ekvivalentní simus vrýedi:

Mm = Mef. 52 = MO,55V

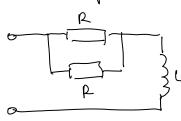


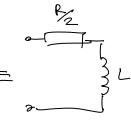


1° prije uklopa S



2° nakon uklopa S





$$\mathcal{L}_{2} = \frac{L}{R} = \frac{2L}{R} = 2.2$$

- vemenshe honstanta de se povedati 2 puta