1)
$$I_{eFo} = I_{sRo} = I_{M} = 0.1$$

$$T_{i} = 0.1$$

$$T = 1$$

$$I_{SR} = I_{SR0} \cdot \frac{T_i}{T} = 0.01$$

$$I_{EF} = I_{EF0} \cdot \sqrt{\frac{T_i}{T}} = 0.0316$$

$$\xi = \frac{J_{EF}}{I_{SR}} = 3.16$$

2)
$$U_{ef} = \sqrt{13^2 + \left(\frac{20}{\sqrt{2}}\right)^2 + \left(\frac{8}{\sqrt{2}}\right)^2} = 20 \text{ V}$$

$$\frac{1}{202} = \frac{1}{7+1} + \frac{1}{6-j8} = \frac{7+1j+6-j8}{(7+1j)(6-j8)}$$

$$\frac{1}{202} = \frac{13-j7}{50-50j} = \frac{3202}{3202} = \frac{50-50j}{13-j7} = \frac{13+j7}{13+j7}$$

$$= \frac{650+350j-650j+350}{218}$$

$$= \frac{2}{3} = \frac{1}{3} + \frac{$$

S1=250 VA (OSP,=0.5 (INO) P2=180W (OSP,=0.8 (VAP) S3=300 VA

9 = 100 VAR

Pa=5, cos Pa= 125 W

52= 1/2 = 225 VA

Q2 = V522-P22 = 135 VAN

P3= 152- Q2 = 282.84W

52 = 225 VA P2 = 180 W Q2 = 435 VA2 -> VAP. ZNAZI "-"

Sur 5, +5, +5,

NE VALLA

TU SAM SE

SA SJEBO

S3 = 300 VA P3 = 282.84 Q2 = 100 VAR

Puz = Pa+ Pz+ P3 = 587.84 W

Que = 01-02+03= 181.5 VAR

Sux = V Puz 1+ Quy 2 = 615.22 VA

FAUTOR SMAGE = Pu = 0.956

MILLMAN

$$U_{AB} = \frac{U_1}{\frac{7}{2} + \frac{U_2}{37}} = \frac{3U_1 + U_2}{\frac{37}{2}} = \frac{40}{1}$$

$$\frac{1}{\frac{7}{2} + \frac{1}{27} + \frac{1}{37}} = \frac{6+3+1}{267} = \frac{11}{2} = \frac{80}{11} = 7.27$$

I:
$$\frac{U}{R} = > R = \frac{U}{I} = \frac{7.27}{1} + 2.27 \Omega$$

U, -> PROMISENT POLATITET

$$U_{A6} = \frac{\frac{U_1}{2} + \frac{U_2}{32}}{\frac{1}{2} + \frac{1}{22} + \frac{1}{32}} = \frac{\frac{3U_1 + U_2}{32}}{\frac{11}{52}} = \frac{-6U_1 + 2U_2}{11} = \frac{-60 + 20}{11} = \frac{-40}{11} = 3.63$$

$$\tilde{I} = \frac{U}{R} = \frac{3.63}{0.27} = 0.5 A$$

$$\frac{1}{2ux} = \frac{1}{10+j10} + \frac{1}{10-j10} = \frac{10+j10+10-j10}{10+j10+(10-j10)} = \frac{20}{200}$$

=0.5.10=5V

NA OTPOR RI OTPADA SV ZNAZI DA SE U TOZUI A POTENCIJAL 5V I SAD MORAMO IZRAZUNAT STYUJU U GNANAMA.

$$I_1 = \frac{V_4}{z_1} = \frac{V_4}{10 + 10} = \frac{10 - 10}{10 - 10} = \frac{50 - 150}{200} = 0.25 - 10.25$$

$$I_{2} = \frac{U_{A}}{Z_{2}} = \frac{U_{B}}{10 - j10} = \frac{10 + j10}{10 + j10} = \frac{50 + j10}{200} = 0.25 + j0.25$$

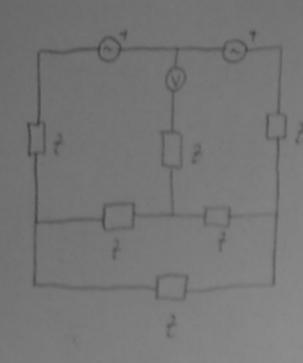
I SAO 1784 EUNAMO NA PON VAB -> I DEMO OO TOEKE A DO TOEKE B PREVO INDULTIVITETA I WEACITETA

JER SU STRUJE U SUPEUTNIM SMJEROVIMA

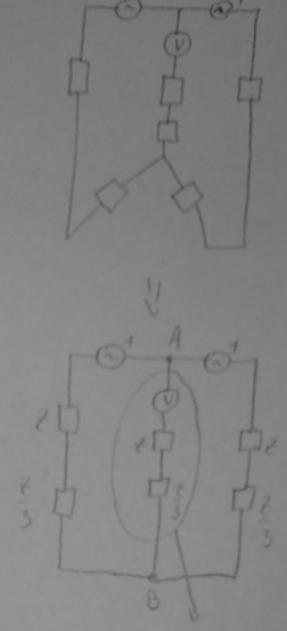
=(0.25-jo.25), j10 - (10.25+j0.25). (-j10)1

= 15 -> NAPON DE 5V A VUT DE 300. JER IMAMO SAMO IMAG. DIO





IDEMO OO A PREMA B



NE TECE STRUM JER VOLTMETAR IMA BESKONAZNI OTROR

9.)
$$U_1 = 380 \text{ V} = 7 U_f = 220 \text{ V}$$

POSTO IMA 3 OTPORNIKA

NEMOSTE KAO SA

ZABORAVIT POMNOZIT S

3 TAKO DA SE REZULTAT

= 3.2 ≈ 3 A

5.7 WW

I. Is + In + IT = 1.72 - 1.72 - 2.98 j - 2.59 + 4.48 j' = -7.59 + 1.89 j