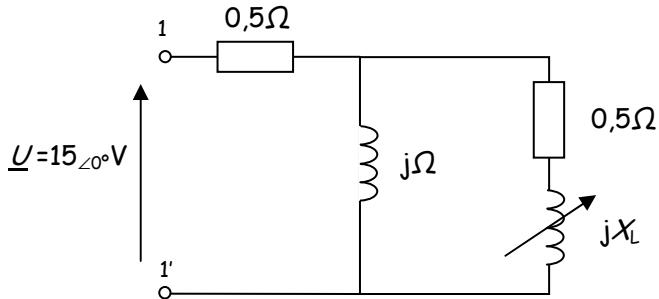


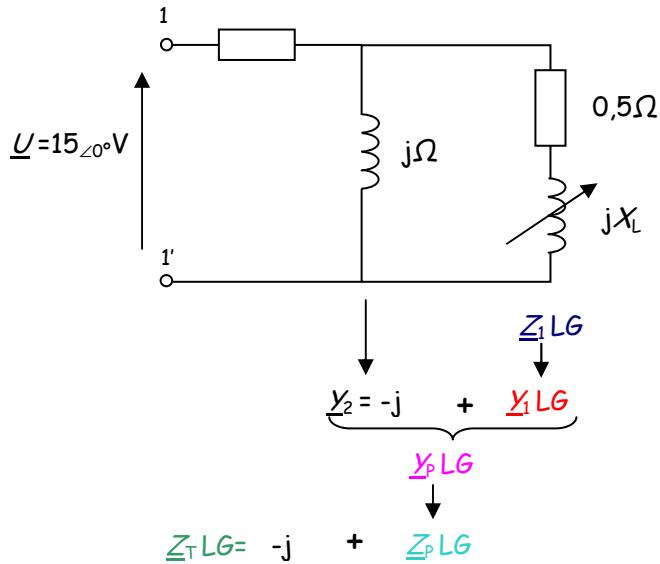
Zirkuitu doigarriak 7. ariketa

Irudiko zirkuiturako zehaztu:

- 1 Zirkuituko impedantzia totalaren leku geometrikoak: \underline{Z}_{TG}
- 2 \underline{Z} -ren balio maximoa: $\hat{|Z|}$
- 3 Desfase handieneko \underline{Z} -ren balioa: $Z_{\angle \hat{\varphi}}$
- 4 \underline{Z} -ren balio minimoa: $\check{|Z|}$
- 5 Intentsitate maximoaren balioa: \hat{I}
- 6 Desfase txikieneako \underline{Z} -ren balioa: $Z_{\angle \check{\varphi}}$



Ebazpena:



$$\hat{Z} \equiv Z_{\angle \hat{\varphi}} = E(0.5 + j) = \sqrt{0.5^2 + 1} \angle \arctg \frac{0.5}{1} = 1.12 \angle 63.43^\circ \Omega$$

$$\check{Z} = F = \left(\sqrt{1+1.5^2} - 1 \right) \angle \arctg \frac{1}{1.5} = 0.80 \angle 33.69^\circ \Omega$$

$$\hat{I} = \frac{U}{\check{Z}} = \frac{15 \angle 0^\circ}{0.80 \angle 33.69^\circ} = 18.75 \angle -33.69^\circ A$$

$$Z_{\angle \check{\varphi}} = G(0.9 + j0.2) = 0.85 \angle 12.52^\circ \Omega$$

