

Különbőségek +, -, \emptyset

Positív sorrend:

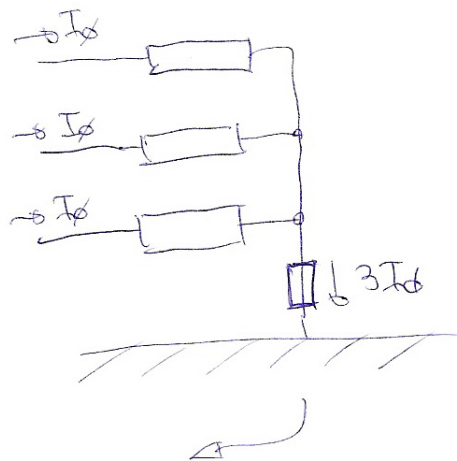
- Elektromotoros erdő van
- topológia: egyvonalas séma

Negatív sorrend:

- Elektromotoros erdő nincs
- impedanciák: $Z_2 = Z_1$, kivéve a
- topológia: ~~egy~~ fongóképek
↳ egyvonalas séma

Zérus sorrend:

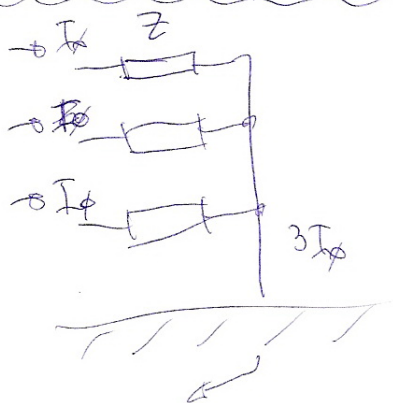
- Elektromotoros erdő nincs
- impedanciák: $Z_0 = Z_{0u} + 2Z_k \neq Z_1$
- topológia: eltér
csillagpont!



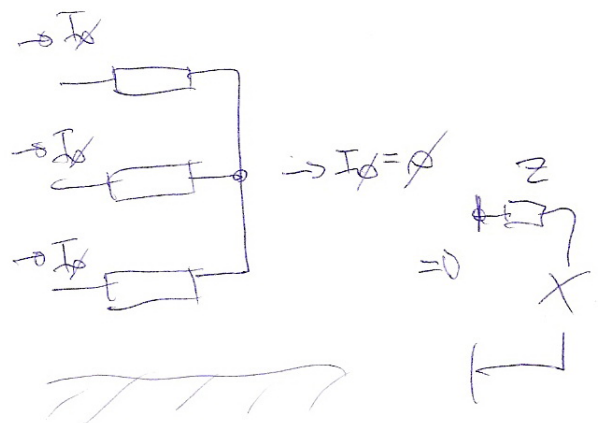
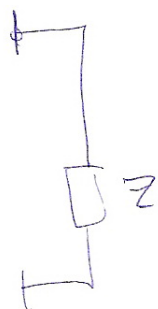
Zérus sorrend helyettesítés

Vezeték: mint \oplus sorrend, $Z_0 \neq Z_1$

Fogyasztó (generátor):

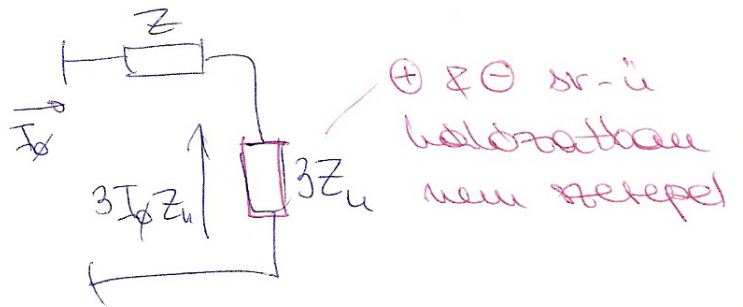
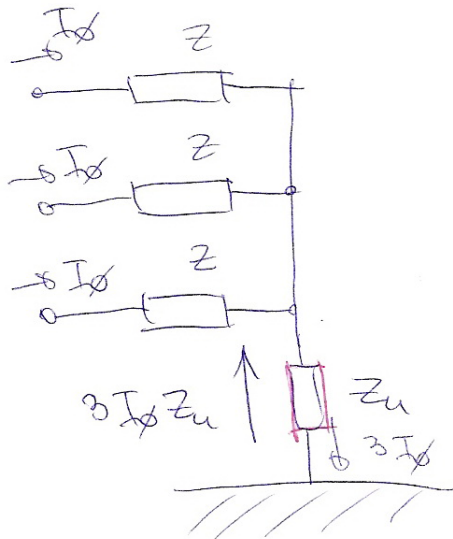
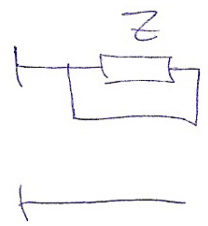
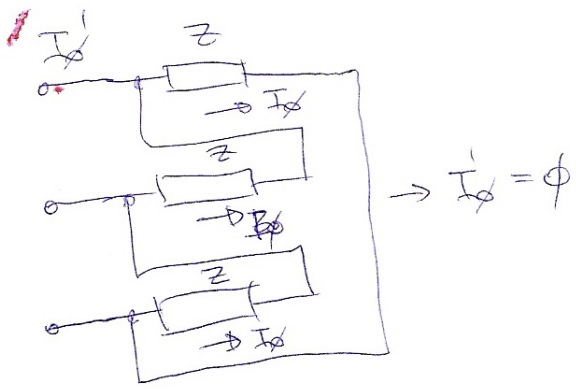


⇒

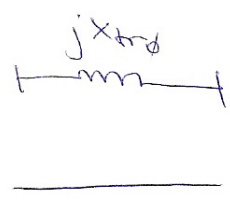
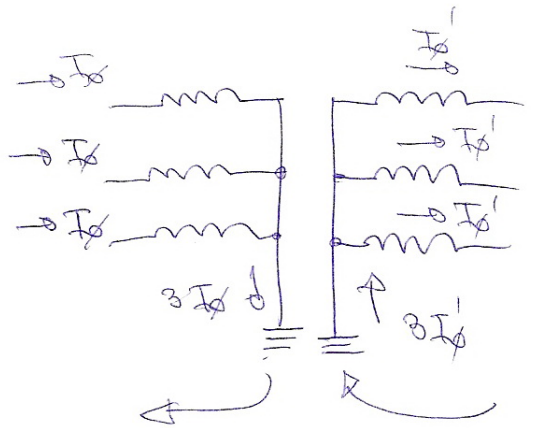
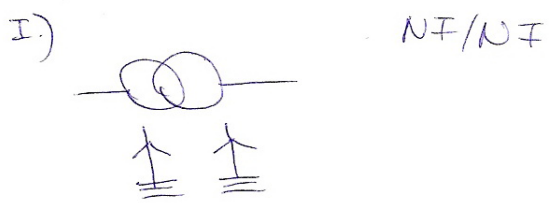


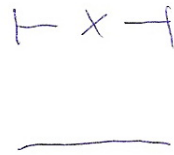
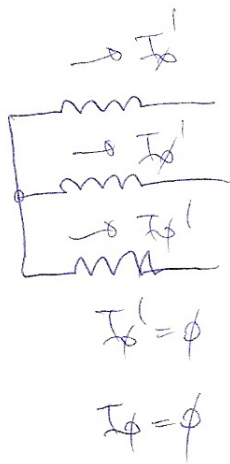
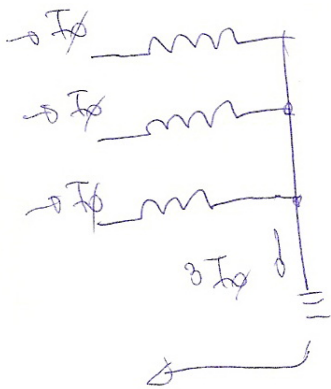
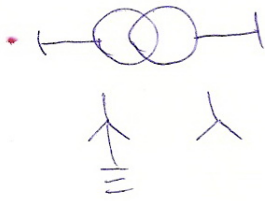
⇒ $I_0 = \emptyset$

= 0

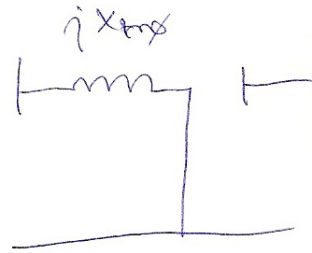
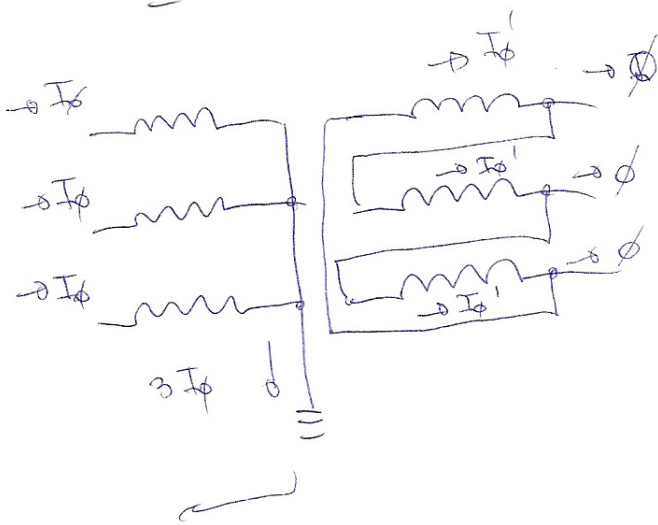
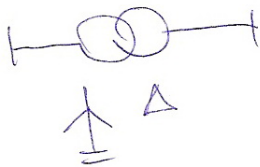


Transzformator:

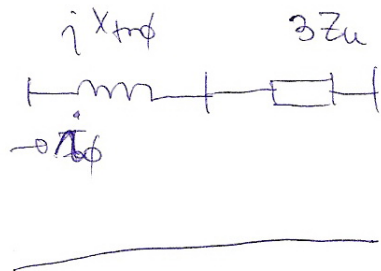
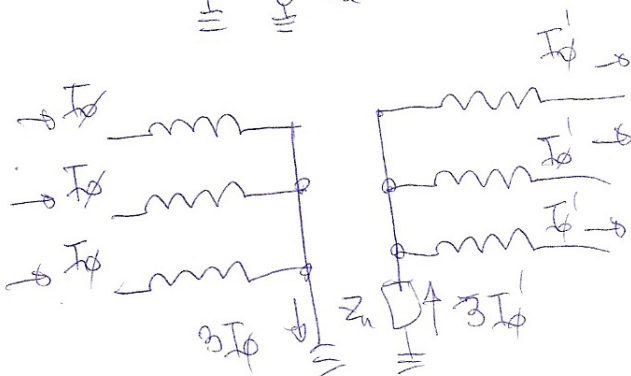
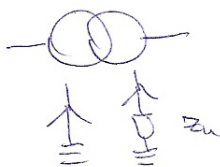




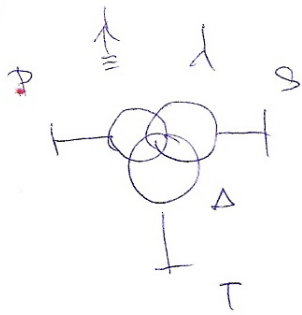
III.)



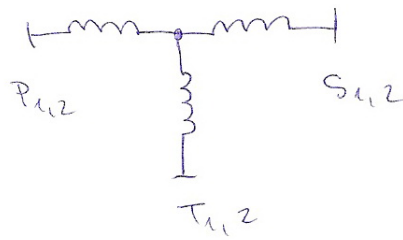
IV.)



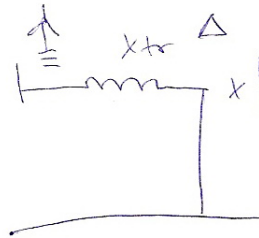
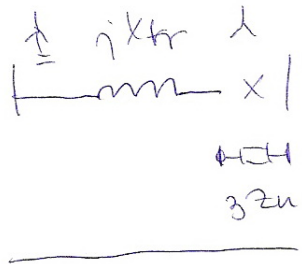
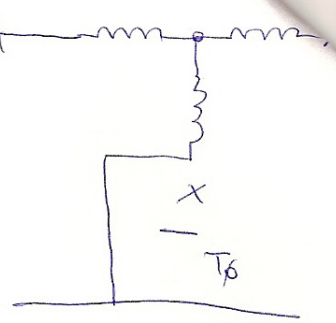
II.)



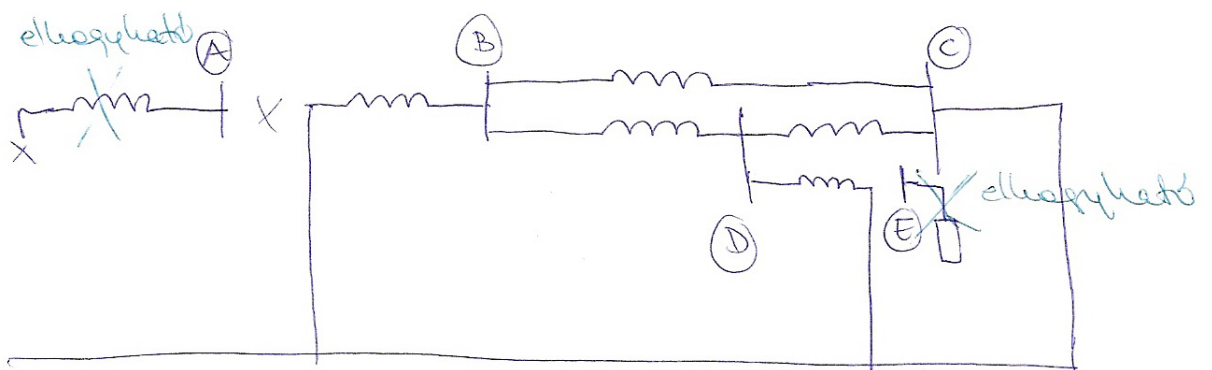
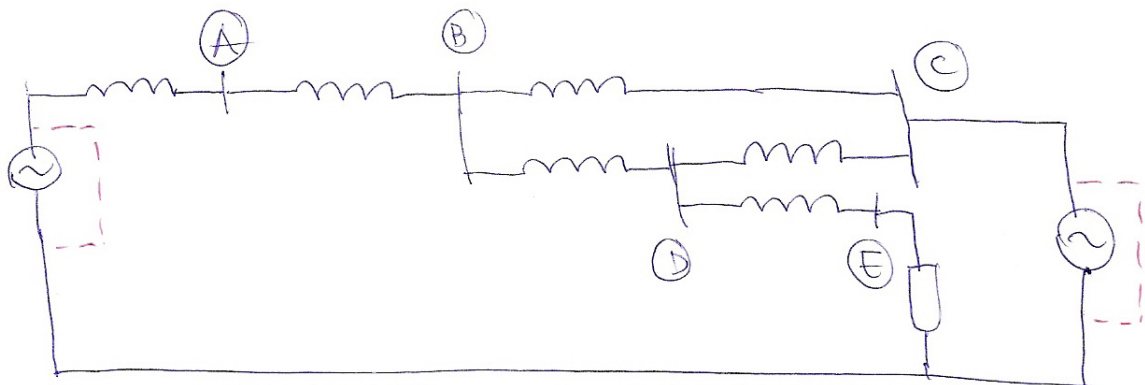
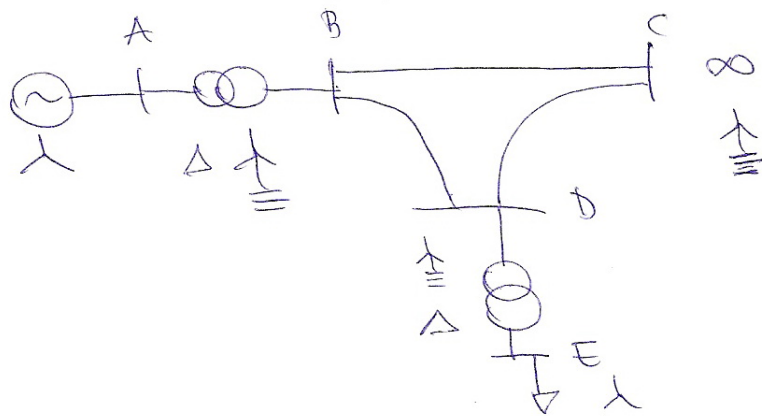
\oplus, \ominus



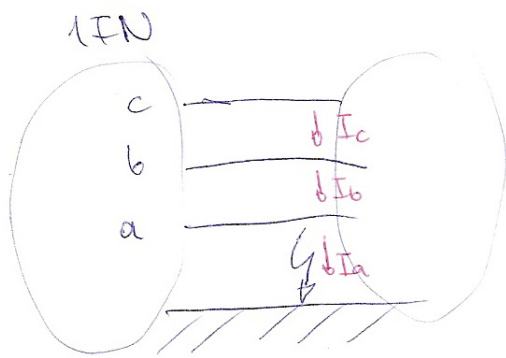
ϕ



F)



Aszimmetrikus szétlakók



$$U_a = \phi \rightarrow U_\phi + U_1 + U_2 = \phi$$

$$I_b = \phi \rightarrow I_\phi + a^2 I_1 + a I_2 = \phi$$

$$I_c = \phi \rightarrow I_\phi + a I_1 + a^2 I_2 = \phi$$

$$I_1(a^2 - a) - I_2(a - a^2) = \phi$$

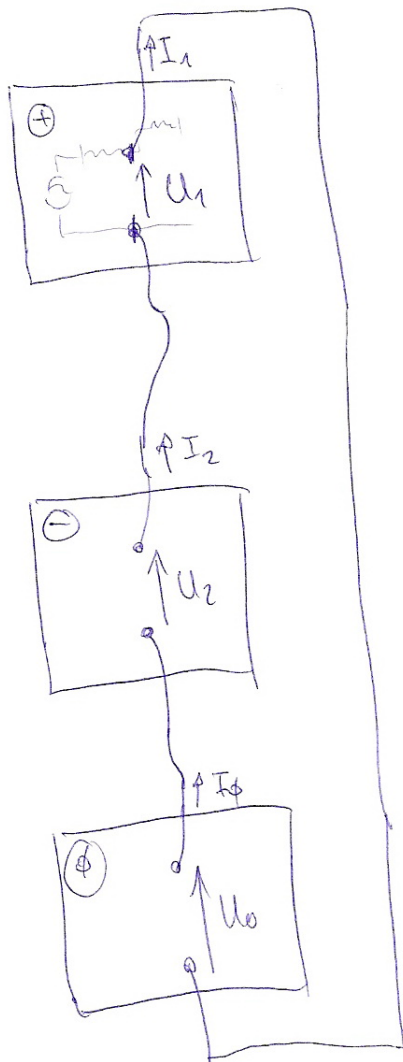
$$I_1 = I_2$$

$$U_a, U_b, U_c \rightarrow U_\phi, U_1, U_2$$

$$I_a, I_b, I_c \rightarrow I_\phi, I_1, I_2$$

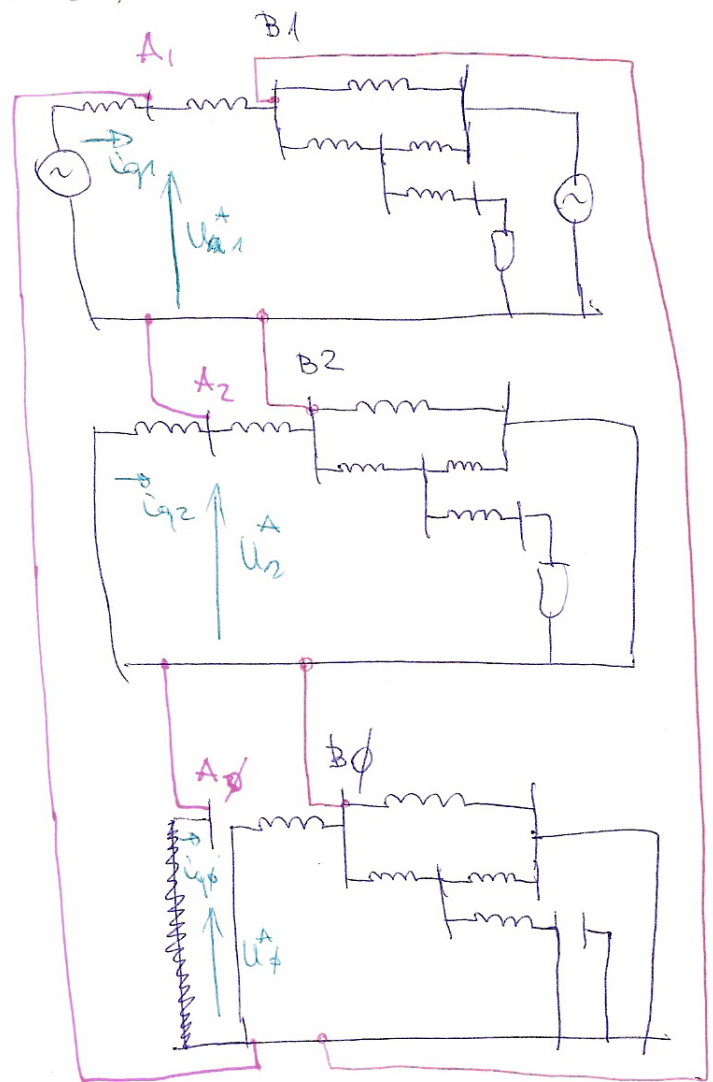
$$I_\phi + I_1(a^2 + a) = \phi$$

$$I_\phi = I_1$$



1FN(B)

1FN(A)



$$I_{q a, b, c} = ?$$

$$U_{a, b, c}^A = ?$$

$$I_{2}^{\text{FN}} = \phi$$