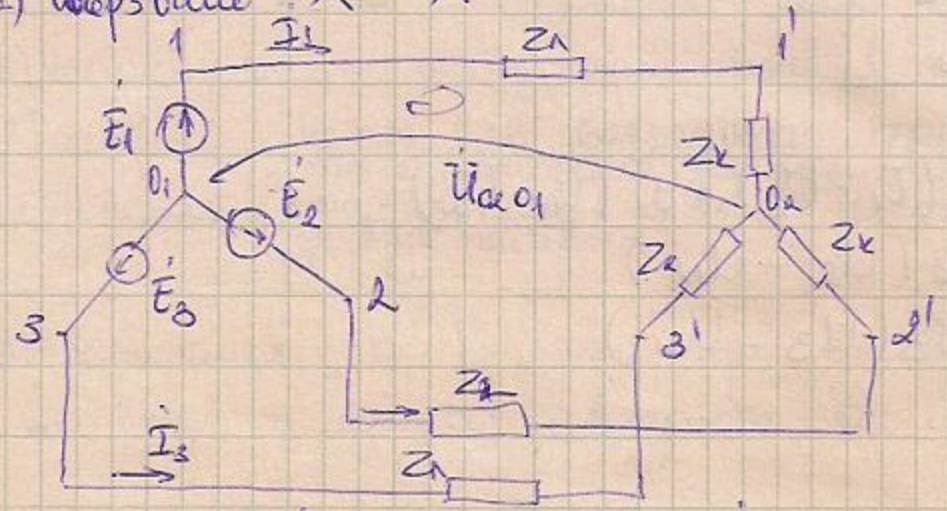
Въпрос №42 Изследване на ТСВ и

1) Свързване $\lambda - \lambda$



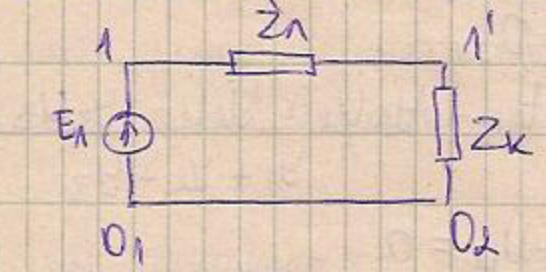
$$\begin{cases} \dot{E}_1 = Z_л \cdot \dot{I}_1 + Z_к \cdot \dot{I}_1 + \dot{U}_{O_2O_1} \\ \dot{E}_2 = Z_л \cdot \dot{I}_2 + Z_к \dot{I}_2 + \dot{U}_{O_2O_1} \\ \dot{E}_3 = Z_л \dot{I}_3 + Z_к \dot{I}_3 + \dot{U}_{O_2O_1} \end{cases}$$

$$\begin{cases} \dot{E}_1 = \dot{E}_1 \\ \dot{E}_2 = a^2 \dot{E}_1 \\ \dot{E}_3 = a \dot{E}_1 \end{cases} \qquad \begin{cases} \dot{I}_1 = \dot{I}_1 \\ \dot{I}_2 = a^2 \dot{I}_1 \\ \dot{I}_3 = a \dot{I}_1 \end{cases}$$

$$(1 + a + a^2)\dot{E}_1 = (1 + a + a^2) Z_л \cdot \dot{I}_1 + (1 + a + a^2) Z_к \cdot \dot{I}_1 + 3 \dot{U}_{O_2O_1}$$

$$\Rightarrow \boxed{\dot{U}_{O_2O_1} = 0}$$

Заместваща схема на I^ва фаза



$$\dot{I}_1 = \frac{\dot{E}_1}{Z_л + Z_к}$$

$$\dot{I}_2 = a^2 \dot{I}_1 \qquad \dot{I}_3 = a \dot{I}_1$$

2) $\lambda \rightarrow \Delta$

$\Delta \rightarrow \lambda$