



$$\begin{aligned} & \mathcal{U} = \rho(R_3 + R_2) \\ & \rho = \mathcal{P} \cdot A = 0.25 \cdot (0.00)^2 \\ & = \mathcal{F} \cdot I = \mathcal{F} \cdot 2.060645 A \\ & \mathcal{O} \cdot \mathcal{F} \cdot$$

Oppgare 4 a) $Z_{L} = 200 \cdot e^{-45\%}$ $a = \frac{1}{3} ||3 \cdot \sqrt{3} ||$ $\frac{V_1}{N_1} = \frac{V_2}{N_2} \frac{V_3}{N_3} = \frac{V_4}{N_4} \quad J_1 N_1 = \overline{L_2} \frac{N_1}{N_2} = \overline{L_4} N_4$ $T_2 = \overline{T}_3 = > N_2 = \frac{T_1}{T_2} N_1 = \frac{T_1}{T_3} N_1, T_3 = \frac{N_4}{N_3} T_4 = >$ $N_2 = \frac{I_1}{I_U} \cdot \frac{N_5}{N_u} \cdot N_1$, $V_2 = V_3 = \frac{V_u}{N_u} \cdot N_5 = 7$ $V_z = \frac{V_u \cdot N_z}{N_u \cdot N_z}$, $V_y = I_u \cdot Z_L = 7V_z = \frac{I_u \cdot Z_L}{N_u} \cdot W_z$ $= > V_1 = V_2 = \left(\frac{I_4 \cdot Z_L}{N_4} N_3\right) = \frac{I_4}{I_1} \cdot \frac{Z_L}{N_1}$ $= > V_1 = V_2 = \left(\frac{I_1 \cdot Z_L}{N_4 \cdot N_1} N_1\right) = \frac{I_4}{I_1} \cdot \frac{Z_L}{N_1}$ $= > V_1 = \frac{T_u}{T_1} \cdot Z_1 \quad J \quad T_{ij} = \frac{T_1}{N_2} \cdot \frac{N_3}{N_{ij}} \cdot N_1$ => $V_1 = T_1 \cdot \left(\frac{N_1}{N_2} \cdot \frac{N_3}{N_1}\right) \cdot Z_L = I_1 \cdot Z_{ab}$ N = 50, N = 1, N = 1, N = 20 => Zab = (= 50) = ZL = 1250 8-450;

