

$$\frac{I_A = I_B = I_0 = 1}{I_C - ?}$$

$$iAV = U_{op} e^{j90^\circ}$$

$$U_{q0} = U_{p0} e^{-j\phi_{q0}}$$

$$C_{f,0} = V_{0,0} e^{-j \frac{\pi}{1500}}$$

$$I_o = I_A + I_B + I_C$$

$$i_{\infty} = \frac{Y_0 u_{10} + Y_0 v_{10} + Y_0 w_{10}}{Y_0 + Y_1} = Y_0 + \epsilon$$

$$\text{III.9. } u_{A_0} = u_{A_0}, \quad u_{B_0} = u_{B_0}, \quad u_{C_0} = u_{C_0}$$

$$\bar{I}_A = \frac{U_{AO}}{Z_A} = \frac{U_{\varphi} e^{j150^\circ}}{j|Z_L|} = \frac{U_{\varphi}}{|Z_L|} = \bar{I}_{AE} e^{j0^\circ} = 1$$

$$\bar{I}_B = \frac{U_B}{Z_B} = \frac{U_B e^{j30^\circ}}{|Z_B|} = \frac{U_B}{|Z_B|} e^{j60^\circ} = I_B e^{j60^\circ} =$$

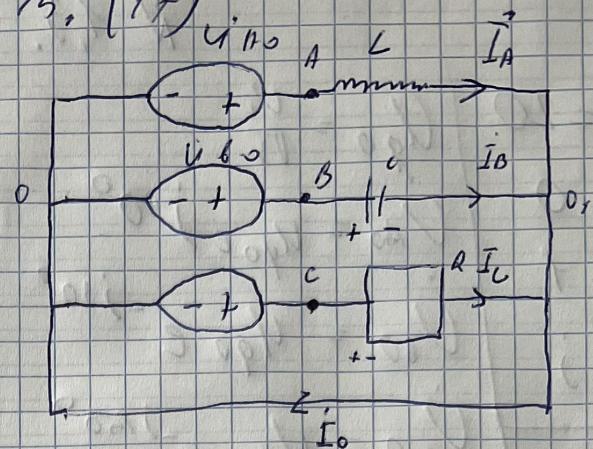
$$= \overline{I_3} \left(\frac{1}{2} + j \frac{\sqrt{3}}{2} \right) = \frac{1}{2} + j \frac{\sqrt{3}}{2}$$

$$I_C = \frac{U_{CO}}{Z_C} = \frac{U_{QE} e^{-j150^\circ}}{R} = I_C e^{-j150^\circ} = I_C \left(-\frac{\sqrt{3}}{2} - j \frac{1}{2} \right)$$

$$I_0 = 1 + \frac{1}{2} + j \frac{\sqrt{3}}{2} - j \left(\frac{1}{2} - \frac{\sqrt{3}}{2} \right) I_L = \left(\frac{3}{2} - \frac{\sqrt{3}}{2} - j \right) + j \left(\frac{\sqrt{3}}{2} - \frac{1}{2} \right)$$

$$I_0^2 = \left(\frac{3}{2} - \frac{\sqrt{3}}{2} I_C \right)^2 + \left(\frac{\sqrt{3}}{2} - \frac{I_C}{2} \right)^2 = \frac{9}{4} - \frac{3\sqrt{3}}{2} I_C + \frac{3I_C^2}{4} + \frac{3}{4} -$$

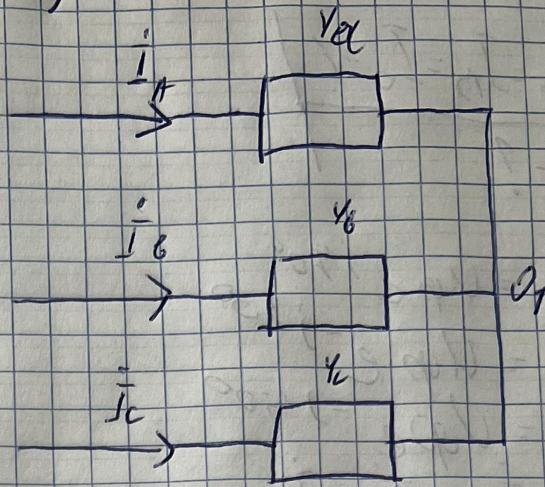
$$-\frac{I_c \sqrt{3}}{2} + \frac{I_c^2}{4} = I_c^2 - 2\sqrt{3}I_c + 3 = 1$$



N. 3. 15. (17)

N 1.3. 15 (7)

$$\begin{aligned}
 U_1 &= 20 & U_{q0} &= \frac{U_1}{\sqrt{3}} \\
 Y_a &= 0 & U_{A0} &= U_{q0} e^{j90^\circ} \\
 Y_b &= 1 & U_{B0} &= U_{q0} e^{-j30^\circ} \\
 Y_c &= j & U_{C0} &= U_{q0} e^{-j150^\circ} \\
 U_{100} & & & \\
 U_{B0C} & & &
 \end{aligned}$$



$$\begin{aligned}
 U_{0,0} &= \frac{Y_A U_{100} + Y_B U_{B0} + Y_C U_{C0}}{Y_A + Y_B + Y_C} = \\
 &= \frac{0 \cdot U_{100} e^{j90^\circ} + \frac{20}{\sqrt{3}} e^{-j30^\circ} + j \frac{20}{\sqrt{3}} e^{-j150^\circ}}{0 + 1 + j} = \\
 &= -15,774 \text{ } \text{g} = 15,774 e^{-j90^\circ}
 \end{aligned}$$

$$\begin{aligned}
 U_{100} &= U_{100} e^{j90^\circ} \\
 &= 27,321 e^{j90^\circ}
 \end{aligned}$$

$$\frac{I_A}{A} = U_{A0} Y_A = 0$$

$$\begin{aligned}
 U_{B0} &= U_{B0} - U_{0,0} = \frac{20}{\sqrt{3}} e^{-j30^\circ} + j 15,774 = \\
 &= 10 + j 0 = 10 \sqrt{2} e^{j45^\circ}
 \end{aligned}$$