

 $Z = \frac{\bar{V}_{an}}{\bar{I}_a} = \frac{V_{LN} L S}{I_1 L B}$ Vcn(t) $V_{an}(t) = \sqrt{2} V_{Ln} \cos(\omega t + \delta)$ $I_{a}(t) = \sqrt{2} I_{L} \cos(\omega t + \beta)$ Pa(t) = Van(t)i(t)= VI [cos(8-B)+ cos(8-B) cos 2(wt+8)+ sin(8-B) sin2(wt+8)] Vbn (t) = 12 VLN cos (wt+8-120°) ig(t) = 1/2 I, cos(wt+8-120) $P_b(t) = V_N I_L \int cos(\delta-B) + cos(\delta-B) cos2(\omega t + \delta - 120) +$ + sin(8-B) sin2(wt-1200)] $V_{Cn}(t) = \sqrt{2} V_{LN} \cos(\omega t + \delta + 120^\circ)$ ic (t) = V2 I1 cos(wt + & B + 120°)

Pc(t)= VLN [[cos(8-B)+cos(8-B)cos(wt+8+120)+Sin(8-B)Sin(wt+8+120)]

=
$$\sqrt{3} V_{U} I_{1} \cos(\delta - \beta)$$

$$Kcl: \overline{V_{Y}} \cdot \overline{V_{0}} + \overline{V_{Y}} \cdot \overline{V_{0}} + \overline{V_{Y}} \cdot \overline{V_{C}} + \overline{V_{X}} \cdot \overline{V_$$

0

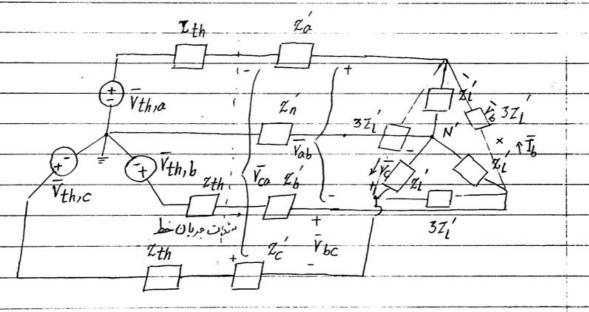
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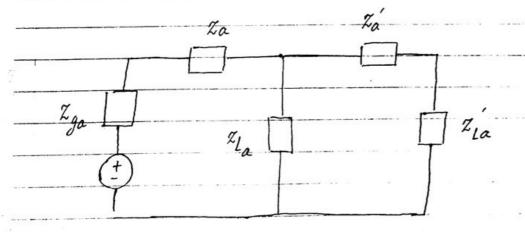
 $Z_{ga} = Z_{b}' = Z_{c}'$

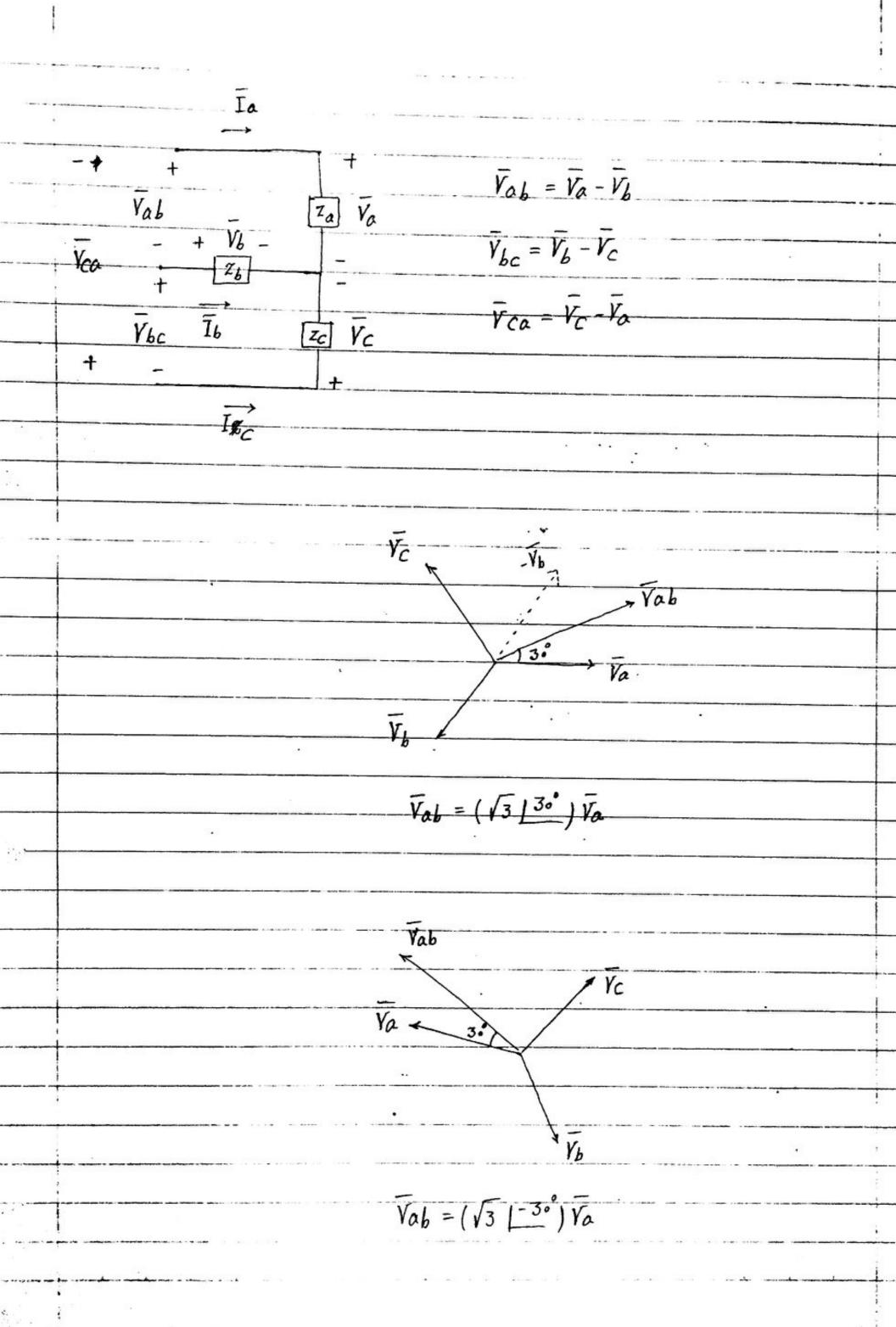
7-La = ZLb = ZLC

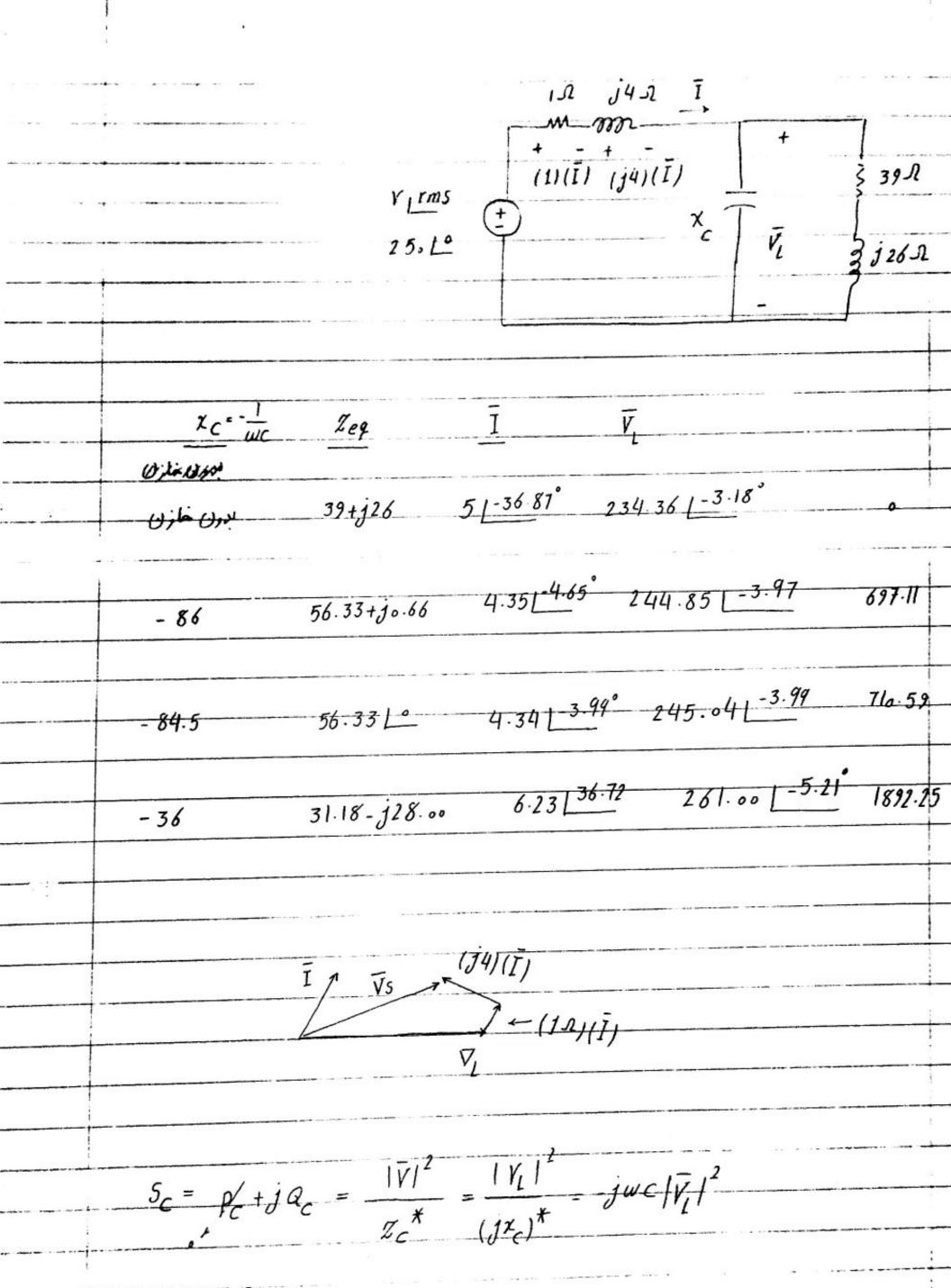
Ith = Ia // (Iga + Ia)

 $\overline{V}th_{\alpha} = \frac{\mathcal{L}_{L\alpha}}{\mathcal{L}_{g\alpha} + \mathcal{L}_{\alpha} + \mathcal{L}_{L\alpha}} \overline{V}_{\alpha}$







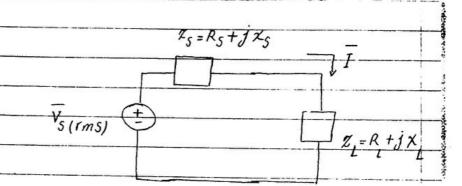


] i(t)=1,(t)+1,(t) i,(t) = I cos(mwt+0) I, LO 12(t) = I2, max cos(nwt+0) I2 10 $p(t) = Ri_{t+1}^{2} = R(i_{1}^{2} + i_{2}^{2} + 2i_{1}i_{2})$ $\rho = \frac{1}{T} \int_{0}^{T} p(t) = \frac{R}{T} \int_{0}^{T} i_{1}^{2} dt + \frac{R}{T} \int_{0}^{T} i_{2}^{2} dt + \frac{2R}{T} \int_{0}^{T} i_{1}^{2} dt$ 0 $\frac{R I_{1,max} I_{2,max}}{T} \left\{ \cos \left(\frac{m-n}{w} + \frac{wt}{w} + \frac{wt}{w} + \frac{wt}{w} \right) \right\} +$ + cos[(m+n)wl+(0+0)] | dt $P_{12} = RI I Cos(\emptyset - B)$ $R(\overline{1}, \underline{10} + \overline{1}, \underline{10})(\overline{1}, \underline{10} + \overline{1}, \underline{10})^*$ $R \left[I_1^2 + I_2^2 + I_1 I_2 \right] = \theta + I_1 I_2 \left[\theta - \theta \right]$

 $I_{1}I_{2}\left[\cos(\theta-\theta)+j\sin(\theta-\theta)\right] \qquad I_{1}I_{2}\left[\cos(\theta-\theta)+j\sin(\theta-\theta)\right] \\ +2I_{1}I_{2}\cos(\theta-\theta)$

(V2 I1) (V2 I2) COS (Ø-0) = I, max I, max COS (Ø-0) = P12

462, 461 in 164, 462



$$\overline{I} = \overline{V}S$$

$$\mathcal{I}_L + \mathcal{I}_C$$

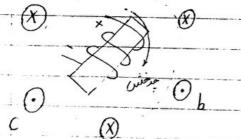
$$P = R_L |\overline{I}|^2 - |\overline{V}_S| R_L$$

 $(R_S+R_L)^2+(x_S+x_L)^2$

$$\frac{dP}{dR_1} = 0 \longrightarrow R_L = R_S$$

$$\mathcal{Z}_L = \mathcal{Z}_S = R_S - j \mathcal{Z}_S$$

ابن رام زها انداره های لاسان دارندر ما اعراف ادارد دارند.



Vb-

-V C

