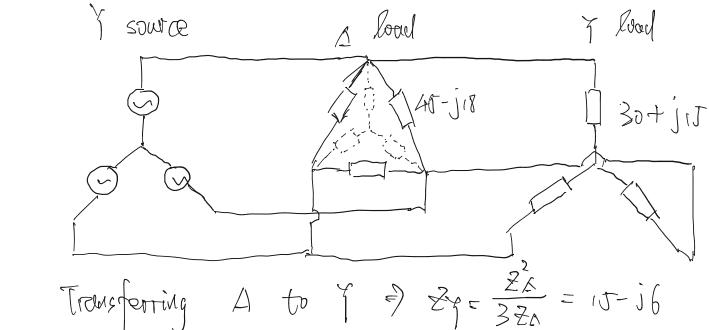
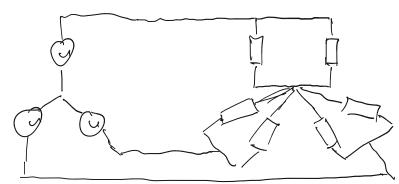
21-



The circuit be comes:



$$(0)$$
  $I_{S} = \frac{V_{S}}{E_{q}} = \frac{227 23^{\circ}}{11.81 - 6.55} = 23.449 26.55^{\circ}$  A

(b) 
$$P_{S} + \hat{j} \hat{d}_{S} = 30 \text{ s} \hat{j}_{S}^{2} = 3 \times 227 \times 23^{2} \times 23^{2} \times 23^{2} \times 45^{9} \times 26.5 \text{ s} = (19.36) - \hat{j}_{S}^{2} \times 223^{2} \times 23^{2} \times$$

(a) 
$$U_1 = \frac{23}{13} \neq V$$
,  $\frac{U_2}{V_1} = \frac{130}{23} = \frac{130}{23} = \frac{130}{13} \neq V$   
 $U_3 = \frac{130}{13} \neq V$ ,  $U_4 = \frac{130}{13} \neq V$   
=)  $(X_{71})_{NEW} = (X_{71})_{0}eU \times (\frac{10eU}{V_{NEW}})^1 \times (\frac{mVA_{NEW}}{mVA_{0}eU}) = 0.066 PU$   
 $(X_{7-})_{NEW} = (X_{72})_{0}eU \times (\frac{V_{0}eU}{V_{NEW}})^1 \times (\frac{mVA_{NEW}}{mVA_{0}eU}) = 0.066 PU$   
=)  $Z_{PU} = \frac{21iNe}{V_{base}/mVA} = \frac{160}{230/15} = \frac{100}{100} = \frac{100$ 

599\_02