· EJERCICIO 1

· EJERCICIO2

Paz calcular le Resistencie Therenin pasivacuos las frientes independientes

(a) culc (up) lc teuria Therain a c. asigrato

$$6A$$
 $i + 30V$ $LKT > 30 = 5(i-6) + 4i + 8i = 7i = 3.5$
 $8-a$ $LKT > VH = -4i - 5(i-6) + 7.6 = VH = 40$
 $4a$ VH $Pwax = \frac{V+h^2}{4Rmax} = \frac{40.23^2}{4.14.23} = 7 = 28$

LKT
$$\Rightarrow$$
 30 = 5 (i-6) + 4i + 8i=7i = 3,52A
LKT \Rightarrow V_H = -4i - 5(i-6) + 7.6 \Rightarrow V_H = 40,23Y

$$P^{\text{max}} = \frac{V + h^2}{4 R^{\text{max}}} = \frac{40,23^2}{4.14,23} = \sqrt{\frac{28,44W}{1000}}$$

$$V_1 = V_2 + V_3 = 139, 11 \ 152,78^{\circ} V$$

 $cos(-37,27^{\circ}) = 0,7957 \rightarrow inductive$
 $M = 230.4,57.0,7957 = 836,45 W$

• EJERCICIO 4

PS = 0,8S5 =>
$$\phi_S = 36,86^\circ$$

W=230. 1,1.0,8 = 202,4 W

 $C = \frac{P_3}{2\pi 50(230)^2} => C = 9,13\mu F$

$$\overline{I} = 1,10^{\circ}$$
 $\overline{V_2} = 7710^{\circ}$ $\overline{V_1} = 230 | 36,86^{\circ}$ $\overline{V_3} = \overline{V_1} - \overline{V_2} \Rightarrow \overline{V_3} = 174,61 | \overline{S2,15}^{\circ}$

$$2 = \frac{\sqrt{3}}{\overline{1}} = \frac{174,61 \left[\sqrt{52,15}^{\circ}}{1.11 \left[\sqrt{60} \right]} = \sqrt{2} = |\sqrt{8,73}| \sqrt{2},15^{\circ} = 97,81 + 125,40$$

· ETERCICIOS Carga 1: P1 = 4500W casd, = 0,6 (cap) => Q1 = -6000VAr Casa 2: 121=10A, COSO2 = 0, TTlind) P2 = 13.220.10.005 = 2095,78W Q2 = V3. 220. 10. sen(arcio) 0,55) = 3182,40var (agg 3: S3 = 5200/A, cosd3 = 0,8 lind) => P3 = 4160W, Q3 = 3120 var $S_3 = |3||3||A_3| \Rightarrow |A_3| = \frac{5200}{(3-220)} \Rightarrow |A_8| = |3,64A|$ método de un vatimetro: Q3 = 13 W3 => W3 = 1801, 33W P23=P2+P3=62TJ,78W Q23=Q2+Q3=6302,4V9 S23=8880,03VA $S_{23} = \sqrt{3.220 \cdot |A_2|} \Rightarrow \sqrt{|A_2|} = 23,30A$ $V_4 = 1 | 1_{12} | \Rightarrow V_4 = 23,30V$ $P_{L} = 3 \cdot 1 \cdot |\Delta_{2}|^{2} = |629,23W$ $Q_{L} = 0 Vac$ P23L = 788 JO W Q23L = Q23 = 6302, 4Var S23L = 10694, 2VA S231 = 13.1/2/. 121 = 1/21 = 200,12V U1 = VZ PIZZL = 1238 JOIN 912ZL = 302, 4 UGC SIZZL = 12388,7 VA SIZZL = 1/3./1/2)-/0,1 => (1/4) = 28.59A) $P_{123L} = W_1 + W_2$ $P_{123L} = \sqrt{3}(W_2 - W_1)$ =) $\begin{cases} W_1 = 6105, 2W \\ W_2 = 6279, 8W \end{cases}$