1)
$$|M| = 0 - 7 = 0 | ia | |M| = |M$$

2)
$$\sqrt{\frac{1}{5}}$$
 0 0 $\sqrt{\frac{1}{6}}$ $\sqrt{\frac{3-i\sigma}{5-i\sigma}}$ $\sqrt{\frac{3-i\sigma}{5-i\sigma}}$ $\sqrt{\frac{3-i\sigma}{5-i\sigma}}$ $\sqrt{\frac{3-i\sigma}{5-i\sigma}}$ $\sqrt{\frac{3-i\sigma}{5-i\sigma}}$ $\sqrt{\frac{3+5}{5-i\sigma}}$

$$= \frac{V_3}{\sqrt{96-15}} = \frac{150}{\sqrt{2}} = \frac{5\sqrt{-90}}{\sqrt{8,38}} = 10,96 \left[-\frac{71,93}{9} \right]^{-\frac{1}{2}}$$

(4)
$$P_{g} = \frac{150}{\sqrt{2}} \cdot 1 \cdot \cos 0^{\circ} = 75\sqrt{2}W$$
 (consumido por la remiteuria)

$$75\sqrt{2} = \frac{50^2}{R} \Rightarrow R = 23,572$$
 $/ I_R = \frac{50}{23.57} = 2,121A$.
 $I_S = I_C + I_R \Rightarrow hacemore el diagracione fusional$
 $I_S = I_C + I_R \Rightarrow hacemore el 2,121^2 - 1^2 = 1,87A$

$$\frac{3.121A}{16R} \qquad \chi_{C} = \frac{150/\sqrt{2}}{1.87} = 56,69 - 1C = 176,38MF$$

$$\chi_{L} = \sqrt{\frac{150/\sqrt{2}}{2,121}} = 44,10 - 12 = 441,04MH$$

X max = 3,9-0

6) Hacemo, el equivalente mono trino A-A $\begin{array}{c|c}
\overline{2}_1 \\
\overline{1}_2 \\
\overline{3}
\end{array}$ $\begin{array}{c|c}
\overline{2}_3 \\
\overline{3}
\end{array}$ 1261=10.V3 26 = 10.13 Lo. $I_{a} = \frac{-(9,33+3,66j)}{-5+3,33j}$ $I_{b} = (0,95+1,36j)$ $I_{b} = 28,73$ 155,06°Vg = (6-1,33;). (28,73 L 55,06°) + 10 (3 (-5+3,33;) = 43,42+177,09; = 182,33 1 76,22° V = 182,33.13 => TV = 315,8V $V = \frac{3\omega}{5} \cdot \sqrt{3} = \frac{367,42 \, V}{367,42 \, V}$ Q= 13. W1-121. Jen \$=> [1] = 13. 367,47. In (arrio 0,9) $Q_{g} = [3 \cdot W_{1} \Rightarrow) W_{1} = \frac{-1800}{[3]} \Rightarrow) [W_{1} = -1039W]$ Pg = 13 IVI III. (054 => Pg = 3711,42W. PL = 2. (6,48) 2. 3 = 251,94 W QL = 1. (6,48) 3 = 125,97 VAr P = P9 - PL = 3459,48 W Qc = Qs + QL = 1925,97 VAr 213W2 = 13-3459,48-1925,97 =) Pc: W2 + W3 = 3459,48 = W2 = 1/73, 760

W3 = 2285,71 /

 $Q_c = \sqrt{3}(W_2 - W_3) = -1925,97$