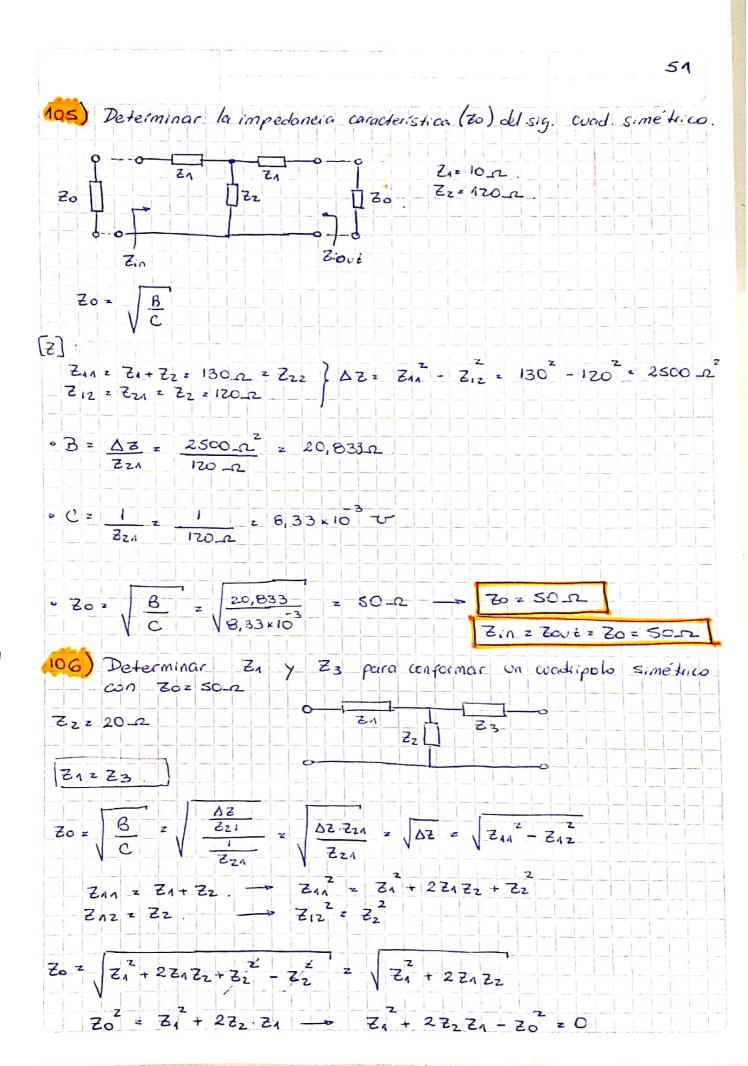


704) Paterminar
$$2k_A$$
. $y = 0.00 + 10^{-1} = 0.00$. $2k_A = 0.00$

103) Determinar Zim, y Zim, Calwlar Zin y Zout con el wad. corgado el Zins Z_{1MA} Z_{23} Z_{3} Z_{40} Z_{40} ZBM1 = \(\frac{AB}{CD} = \sqrt{\frac{5 290}{04.6}} = \frac{49,16 \D = Zim_A. Zim2 = \(\frac{D B}{A \c.} = \sqrt{\frac{6 \ 290}{50.4}} = \[58,99 \ \tau = \text{Zimz} \] ZIN 2 ZN + ZZ/ (Z3+ ZIMZ) = 40 + 10/ (SO+ 58,99) = 19,16_12 = Zin Zout = Z3 + Z2 // (Z4 + ZiMA) = S0 + 10 // (40 + 49,16) = S8,99-2 = Zout 104) Determinar Zima y Zimz. Calcular Zin y Zout con el wad. cargado con Zins $Z_{1} = 10 - 12$ $Z_{2} = 10 + 12$ $Z_{2} = 10 + 12$ $Z_{3} = 10 + 12$ $Z_{4} = 10 + 12$ $Z_{5} = 10$ · Bimn = \ \frac{AB}{CD} = \frac{1.2 (10+66)}{0.02 (14+0.6)} = \frac{6964 25.25}{0.02 (14+0.6)} = 25.8+ i 5.78[2] = Zim1 = 25,8+j 5,78 [2] - Zimz = \(\frac{DB}{CA} = \sqrt{\left(1+\frac{1}{2}\to,1)\left(10+\frac{1}{2}\to)}{488,34} \sqrt{\frac{36,67}{2}} = \(20,96+\frac{1}{6},95 \) \(\bar{C}\to] = \(\bar{Z}:M_{\bar{Z}} \)

· Zin = Zi+ Zz/ (Z3 + Zimz) = 10 + 50/ (15+20,96+16,95) = 25,8+15,78[]=Zin



$$Z_{1}^{2} + 2.20.Z_{1} - 50^{2} = 0$$

$$Z_{1}^{2} + 40Z_{1} - 2500 = 0$$

$$\begin{cases} (Z_{1})_{1} = 33.851 \Omega \\ (Z_{1})_{2} = 73.851 \Omega \end{cases}$$

$$Z_{1} = Z_{3} = 33.851 \Omega$$