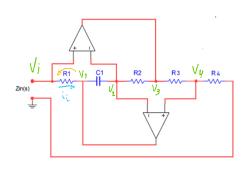
Eiercicio #5

Para los siguientes dipolos activos determinar la Impedancia de Excitación. Utilizar un simulador para graficar el módulo y la fase de Zin, adoptando los valores:

 $R1{=}R2{=}R3{=}R4=1~k\Omega$; $C1{=}C2=1~\mu F$



$$Z_{in} = \frac{V_i}{i_i}$$

$$L_L = (V_1 - V_1) G_1$$

$$V_z$$
: V_z . $(G_z + SC) - V_1$. $SC - V_3$. $G_z = 0$

$$\forall y: \quad \forall y \cdot (G_{y} + G_{3}) - \forall y: \quad G_{3} = 0$$

$$\forall i = \forall z = \forall y$$

$$\begin{cases}
V_{1} \cdot (6_{4} + 6_{3}) - V_{3} \cdot (6_{3} = 0) \\
V_{1} \cdot (6_{2} + 5c) - V_{1} \cdot 5c - V_{3} \cdot 6_{2} = 0 \\
i_{1} = (V_{1} - V_{1}) \cdot 6_{1}
\end{cases}$$

$$-2 \quad V_3 = V: (G_4 + G_3) \quad V_1 S C = V: (G_2 + SC) - V: G_2 \frac{(G_4 + G_3)}{G_3}$$

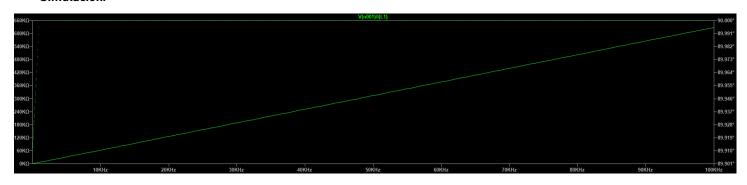
$$V_1 = V_1 \left(\frac{5 \subset 6_3 - G_2 G_4}{5 \subset G_3} \right)$$

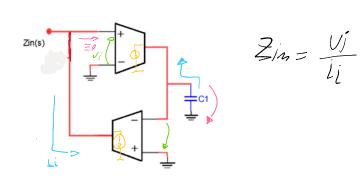
$$L_{i} = V_{i} \cdot \left(1 - \frac{5 < 63 + 6264}{5 < 63}\right) \cdot G_{1} = V_{i} \cdot \left(\frac{5 < 63 - 5 < 63 + 6264}{5 < 63}\right) \cdot G_{1}$$

$$Z_{iM} = \frac{V_i}{\sqrt{\frac{G_1G_2G_3}{S_2G_2G_2}}} = \frac{SCG_3}{G_2G_4G_1} = S \cdot \frac{CG_3}{G_2G_4G_1}$$

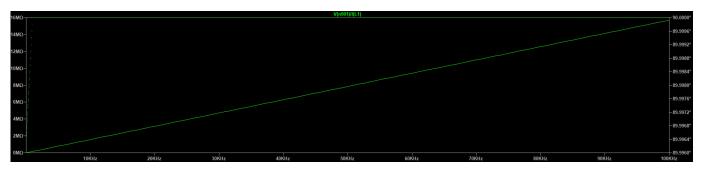
Se comports como

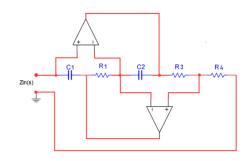
Simulación:





Simulación: _ o gm = ZODNS - Sin = 5 L La 25 Hy





Lo CAP con Faiter

Simulación:

