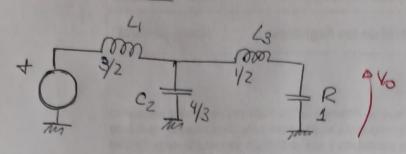
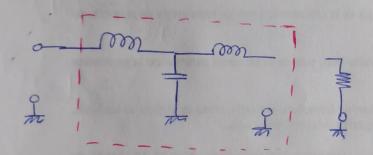
## TAREA SEMANA 7



## PARTS I

## 1. TRANS Forencia

Padria persor en contri polo Cargado y hallar sus
Padria metros T -> Cono ciendo LA A puedo Obtener
LA TF de Tersiai



Como está CARGADO A'= A + B. YL.

oten opción seria haber PARAM Z por simple inspección

$$ZX = \begin{pmatrix} ZA + ZB & ZB \\ ZB & ZC+ZB \end{pmatrix}$$
 $T\beta = \begin{pmatrix} 1 & \phi \\ Y & 1 \end{pmatrix}$ 

$$\begin{cases}
Z_{11} = \frac{\$^{2} \cdot L_{1} \cdot c_{2} + 1}{\$ \cdot c_{2}} & Z_{12} = \frac{1}{\$ \cdot c_{2}} \\
Z_{21} = \frac{1}{\$ \cdot c_{2}} & Z_{22} = \frac{\$^{2} \cdot L_{3} \cdot c_{2} + 1}{\$ \cdot c_{2}}
\end{cases}$$

$$\begin{pmatrix}
A = 1 & B = \emptyset \\
e = 1/R & D = 1
\end{pmatrix}$$

$$A_{\alpha} = \frac{v_1}{v_2} \Big|_{z=0} = \frac{z_{11}}{z_{21}} = \frac{z_{11}}{z_{21}} = \frac{z_{21}}{z_{21}}$$

$$B_{X} = \frac{V_{I}}{(-J_{Z})}\Big|_{V_{Z}=\emptyset}$$
  $\Rightarrow \int_{V_{Z}=0}^{V_{I}} \frac{J_{Z}}{J_{Z}} \frac{J_{Z}}{J_{Z$ 

$$\frac{V_{1}}{J_{2}} = \frac{Z_{22}}{Z_{21}} \cdot Z_{11} \cdot Z_{12} = \frac{\$^{2}_{13.02+1}}{\$^{2}_{022}} \cdot \frac{\$^{2}_{022}}{\$^{2}_{022}} \cdot \frac{\$$$

(II)

$$A' = \$^{2} \cdot L_{1} \cdot cz + 1 + \$^{3} \cdot L_{3} \cdot L_{1} \cdot cz + \$(L_{3} + L_{4})$$

$$A' = \$^3$$
 L3 L1 C2 +  $\$^2$  L1. C2 . R +  $\$$  (1.3+a) +  $\frac{R}{R}$ 

$$A' = \$^3 . L_3 . L_1 . C_2 + \$^2 . R . L_1 . C_2 + \$ . (L_3 + L_1) + R$$

$$\frac{\sqrt{2}}{\sqrt{1}} = A' = \frac{R}{\$^3 \cdot L_3 \cdot L_1 \cdot C_2} + \$^3 \cdot R \cdot L_1 \cdot C_2 + \$ \cdot (L_3 + 4) + R$$

4 4

$$T_{V(\$)} = \frac{3}{\$^{3} \cdot 1^{3} \cdot 1^{2} \cdot 1^{2$$

$$T_{V(3)} = \frac{1}{\$^3 + \$^2 \cdot 2 + \$ \cdot 2 + 1}$$

Verifico con calculadora

en 159.mHz = 1 r/s tago mi Lpf. =>@c

PARTE I

$$A = 1/4u$$
 $A = 1/4u$ 
 $A = 1/4$ 

Amn = 3gn (m.n). Sgn(i-j). \*\* x ij

y mn  $\frac{V_{34}}{V_{14}} = \frac{Sgn(1-4).Sgn(3-4)}{(-1)}$ YA (YA+YB+YC) - YA2 = YA.YB+YA.YC

$$\frac{1}{\$c_1}$$
  $\frac{\$c_2}{\$c_1}$   $\frac{1}{\$c_3}$  =  $\frac{c_2}{\$c_2}$   $\frac{1}{\$c_3}$   $\frac{\$c_2}{\$c_3}$   $\frac{1}{\$c_4}$   $\frac{1}{\$c_5}$   $\frac{1}{$$ 

$$= \frac{1}{\$^{2} \cdot 1 \cdot 1 \cdot 3} + \frac{1}{\$ \cdot 1} \cdot G_{+} + \$cz \cdot G_{+} + \frac{G}{\$ \cdot 2} \cdot G_{+} + \frac{G}{\$ \cdot 3} + \frac{1}{\$ \cdot 1} \cdot G_{+} + \frac{G}{\$ \cdot 3} + \frac{G}{\$ \cdot 4} + \frac{G}$$

\$2 4 6 . \$13+ \$2402+\$343026+ 6 \$4

TI

\$2.4.63

$$V_{14} = \frac{1}{\$^3 \cdot 6 \cdot (3 \cdot (1 \cdot (2 + \$ \cdot 6 ((1 + (2 + \$ \cdot 6 ((1 + (2 + \$ \cdot 6 ((1 + (2 + \$ \cdot 2 + 1))))))))))}$$

PROTE III 
$$\rightarrow$$
 YB(\$) = Y(\$).\$ Y(\$) = \$\frac{1}{5}.\$\$

Yect) = \$\frac{1}{5}.\$ c

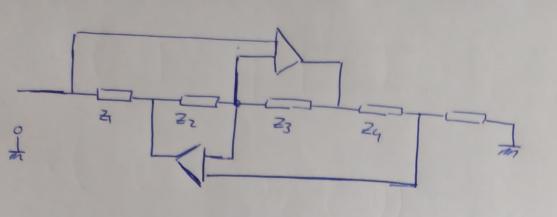
YG(\$) = \$\frac{1}{5}.\$ c

YG(\$) = \$\frac{1}{5}.\$ c

YG(\$) = \$\frac{1}{5}.\$ G

TRANSJO CON Y => \$\frac{1}{5}.\$

TRANSJO CON Y => \$\frac{1}{5}.\$



$$y_{\text{FDNR}} = \$^2_{\text{c}} = y_{\text{c}}^2 = z_{\text{FDNR}} = z_{12325}$$

S: 
$$Z_1 = Z_5 = C$$
 $R_2 = R_3 = R_5$ 
 $R_4 \Rightarrow hbre$ 
 $R_5 = C_5$ 

Adopto  $C_{5} = C_5$ 
 $R_{5} = C_{5}$ 
 $R_{5} = C_{5}$