$$Ts.$$

$$D$$

$$\frac{2}{5}(s) = \frac{(s^2+3)(s^2+1)}{s(s^2+2)}.$$

$$\frac{5}{(s^2+2)}(s^2+1)$$

①. 
$$\lim_{S^2 \to 3} Y(S) = \frac{1}{2} \frac{\pi_1}{5}$$
  
 $\int_{-3}^{2} S^2 + 3$   
 $\lim_{S^2 \to 3} \frac{(S^2 + 2)}{(S^2 + 1)} = 2 \pi_1 = \frac{1}{2}$ 

$$\lim_{S^{2} \to -1} Y(S) = \frac{2 k_{2} S}{S^{2} + 1}$$

$$\lim_{S^{2} \to -1} \frac{S^{2} + 2}{S^{2} + 3} = 2 k_{2} = \frac{1}{2}$$

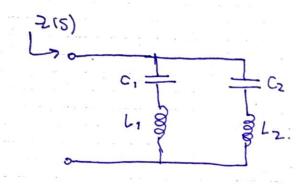
: 
$$Y(s) = \frac{1}{2} \left[ \frac{s}{s^2 + 3} + \frac{s}{s^2 + 1} \right]$$

$$Y_1 = \frac{S}{2S^2 + 6} \Rightarrow Z_1 = 2S + \frac{6}{S} \Rightarrow L_1 = .2$$

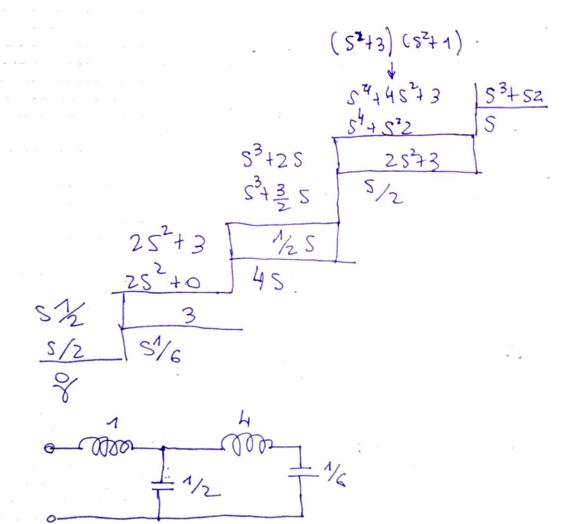
$$C_{.2} = \frac{1}{6}$$

$$\frac{1}{2} = \frac{S}{2S^2 + 2} = 12 = 2S + \frac{2}{5} \rightarrow L_2 = 2$$

$$0_2 = \frac{1}{2}$$



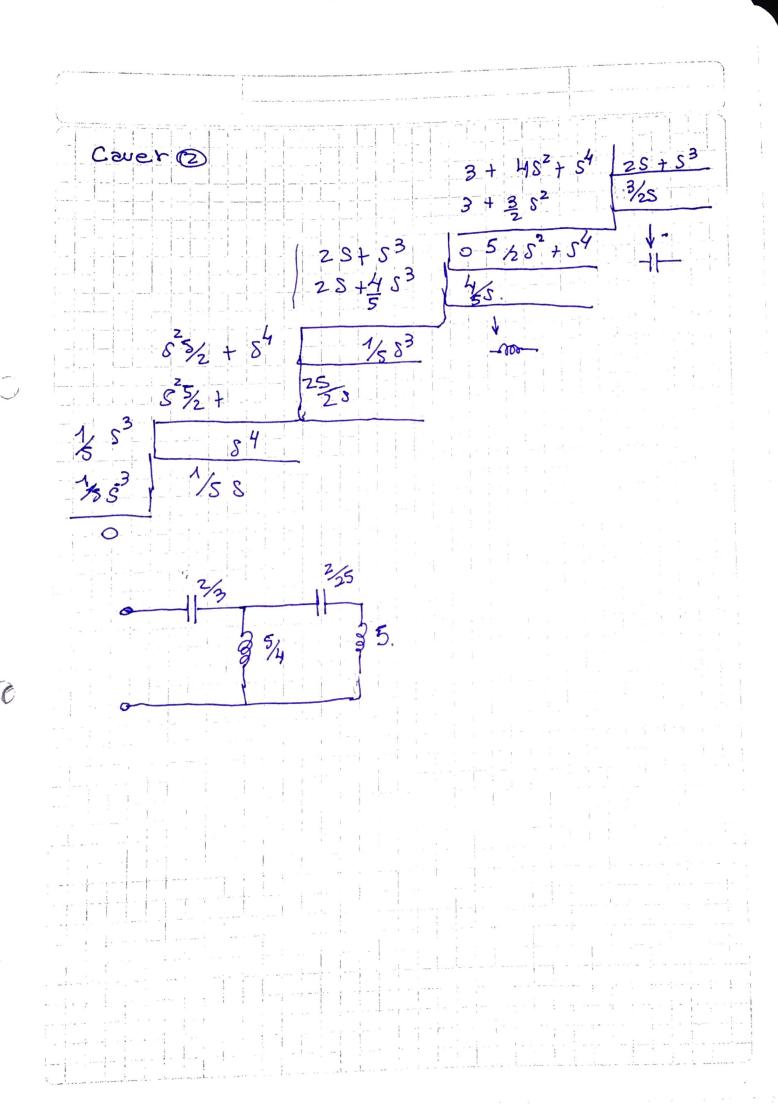
O Cauer O.



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(2)



$$\frac{(2)}{(s^2+2)(s^2+5)}$$

Tengo que retirar percialmente un opperator. De.

modo que le : instancie restante tenge un polio en 0.

$$f(s) = \lim_{S^{2} \to -1} \frac{3S^{2} + S^{2} + \frac{7}{3}}{(S^{2} + 2)(S^{2} + 5)} = \frac{-3(\frac{14}{3})}{4}$$

Ko = 1 -> El primer copacitor vote 1.

Busco la impedancia restante.

$$\frac{1}{2}B = \frac{1}{2}(8) - \frac{1}{8} = \frac{5^4 + 75^2 + 10}{35^2 + 75} - \frac{1}{5}$$

$$\frac{28(8)}{35^{3}+75^{2}}$$

$$\frac{3S_3 + 3S}{24 + 4S_5 + 3} = \frac{3S(S + \frac{3}{2})}{(S_5 + 1)(S_5 + 3)}$$

$$Y_{B} = \frac{3S(S+\frac{7}{3})}{(S^{2}+1)(S^{2}+3)}$$

Ahora podemos 82022 el polo en 11/ y /131/

$$\lim_{S^2 \to -1} Y_B(s) = \frac{2 \times 1}{S^2 + 1} \Longrightarrow \lim_{S^2 \to -1} \frac{3S^2 + 7}{S^2 + 3} = 2 \times 1$$

2K1=2.

$$\frac{\text{dim}}{5^2 + 3}$$
  $\frac{78(5)}{5^2 + 3} = \frac{2 \text{kz} 5}{5^2 + 3} = \frac{1}{5^2 + 3}$   $\frac{35^2 + 7}{5^2 + 1} = 2 \text{kz}$ 

$$Y_{B} = \frac{2s}{5^{2}+1} + \frac{s}{s^{2}+3}$$

$$C_{1} = 2 \qquad C_{2} = \frac{1}{3}$$

$$L_{1} = \frac{1}{3} - L_{2} = 1$$

Circuito: