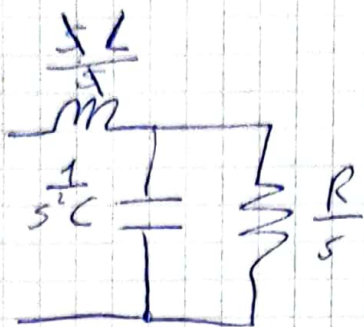
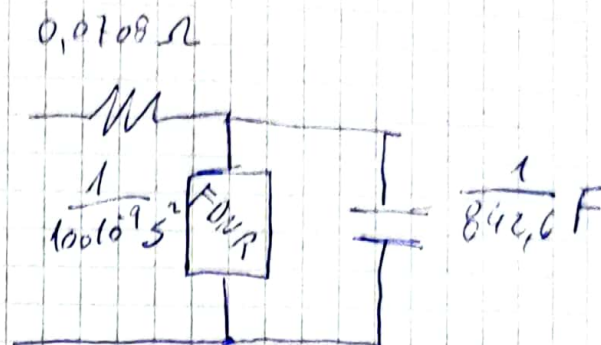


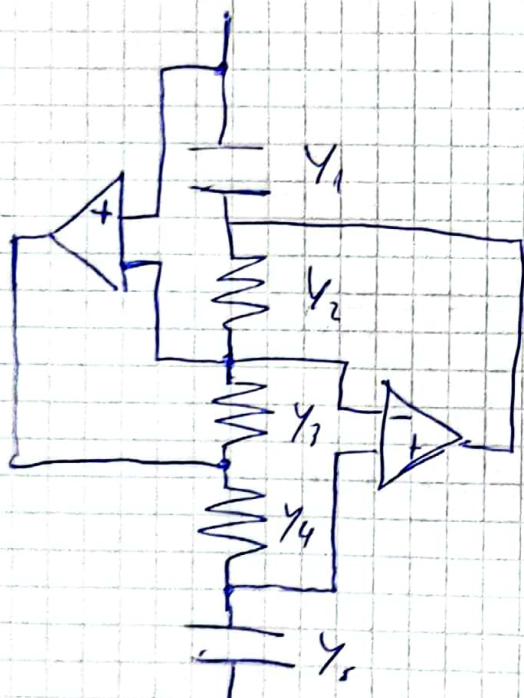
# 5) Transformación de Bruton



$\longleftrightarrow$



FDNR:



$$\frac{V_1}{I_1} = \frac{Y_4 Y_2}{Y_1 Y_3 Y_5}$$

$$\frac{V_1}{I_1} = \frac{1}{\frac{Y_1 Y_3 Y_5}{Y_2 Y_4}} = \frac{1}{100 \cdot 10^{-9} s^2}$$

$$s^2 \frac{C_1 C_5 R_2 R_4}{R_3} = s^2 \cdot \frac{100 \cdot 10^{-9} \cdot 100 \cdot 10^{-9} \cdot 10^3 \cdot 100 \cdot 10^3}{100}$$

$$s^2 \cdot 100 \cdot 10^{-9} \Rightarrow R_2 = 10 \text{ k}\Omega \quad R_3 = 100 \Omega$$

$$R_4 = 100 \text{ k}\Omega \quad C_1 = C_5 = 100 \cdot 10^{-9} \text{ F}$$