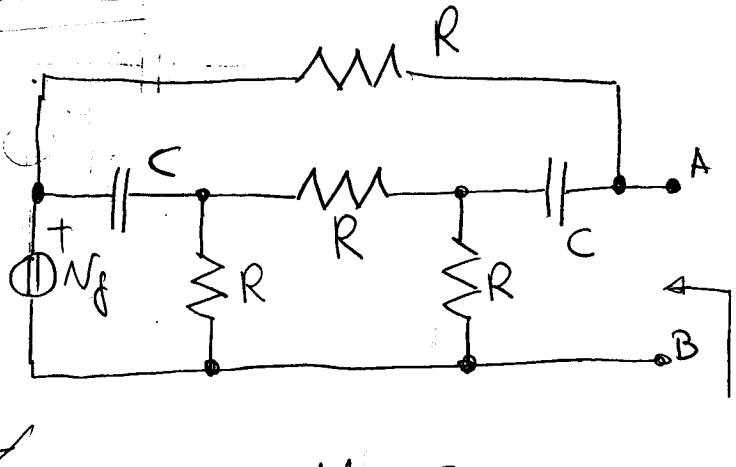
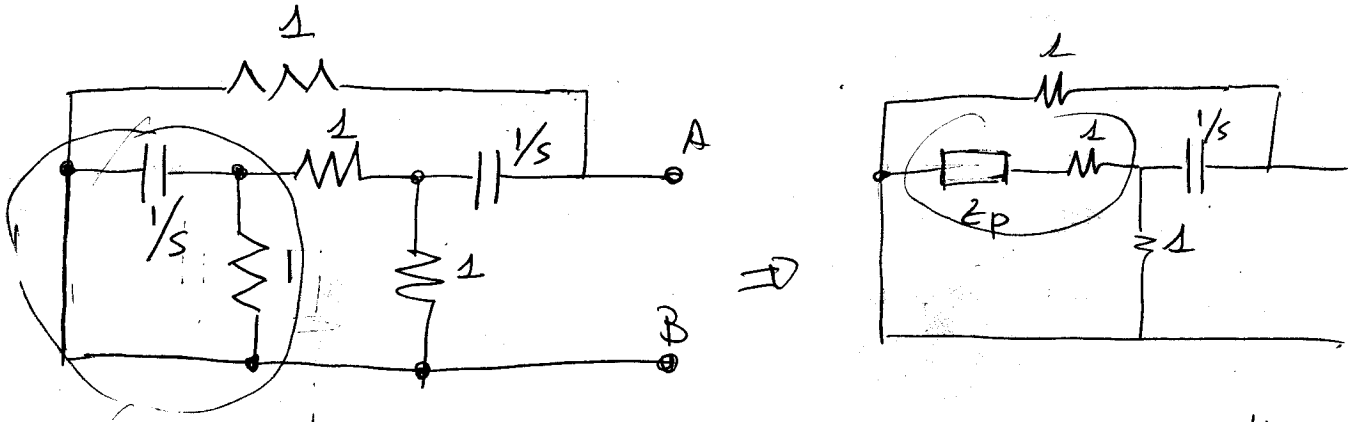
ELE_INFO_2001_12_19 ES. 2



Rete equivalente di Thèvenin tra i morsetti A-B_

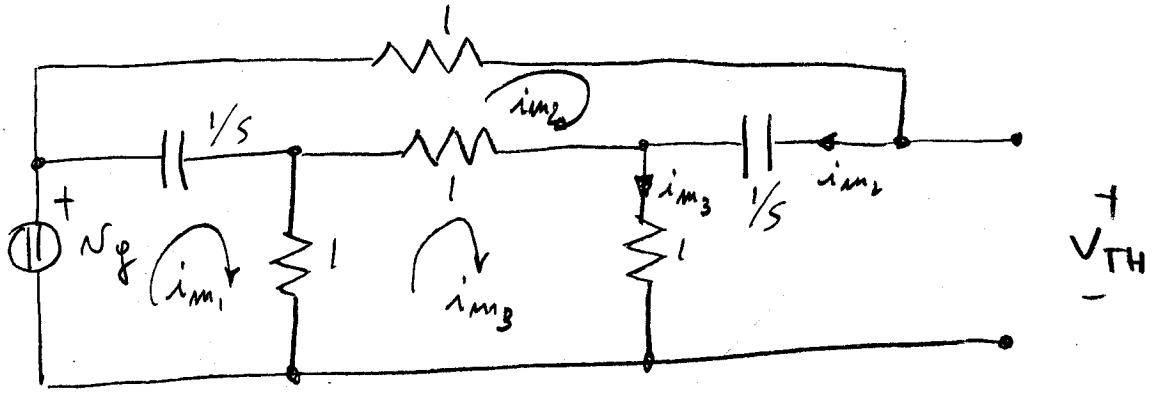
1) calcolo della Z_{TH}.
Disattivo il generatore di tensione



combinando le varie impedenze serie e // si ottiene:

$$Z_{TH} = 1 + \frac{s^2+4s+3}{3s^2+7s+3}$$ (salvo errori!)

2) calcolo della V_{TH} (traccia)



$V_{TH} = i_{m_3} R + i_{m_2} \frac{1}{sC}$ ⇒ calcolo i_{m_2}, i_{m_3} metodo maglie

$$\begin{bmatrix} \frac{1}{s}+1 & -\frac{1}{s} & -1 \\ -\frac{1}{s} & 2+\frac{2}{s} & -1 \\ -1 & -1 & 3 \end{bmatrix} \begin{bmatrix} i_{m_1} \\ i_{m_2} \\ i_{m_3} \end{bmatrix} = \begin{bmatrix} V_g \\ \phi \\ \phi \end{bmatrix}$$

ecc.