

$$E_1 = 40 \text{ V}$$

$$E_3 = 15 \text{ V}$$

$$E_5 = 7 \text{ V}$$

$$E_7 = 4 \text{ V}$$

$$I_{g2} = 2 \text{ A}$$

$$I_{g6} = 1 \text{ A}$$

$$R = 10 \Omega$$

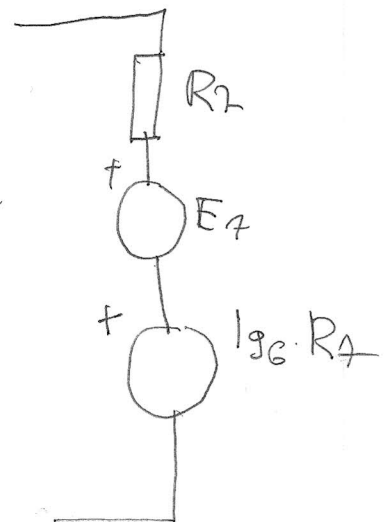
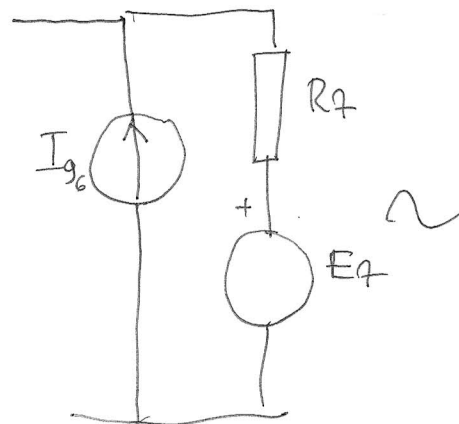
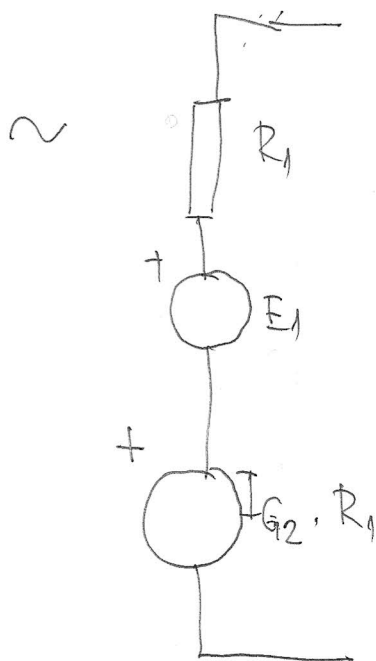
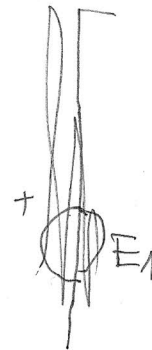
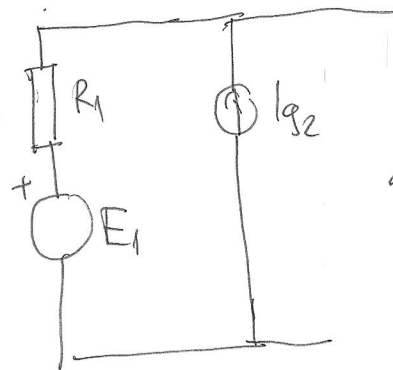
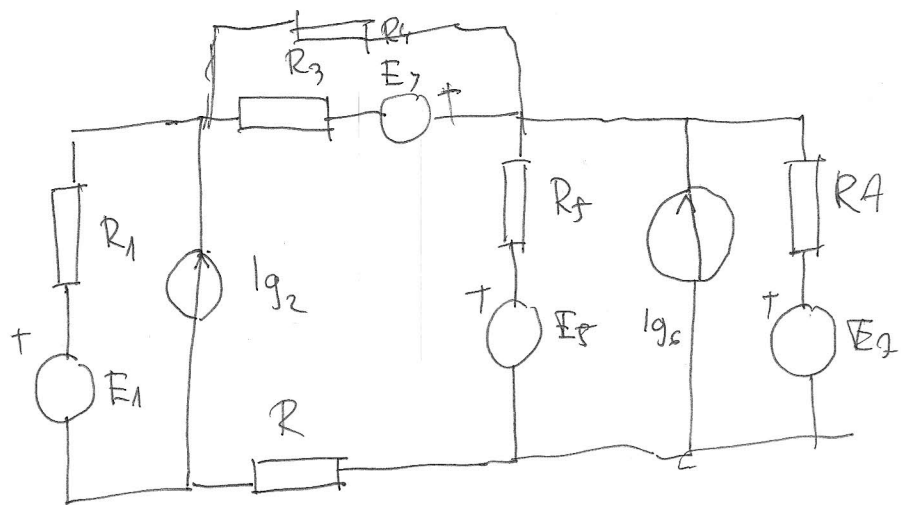
$$R_1 = 20 \Omega$$

$$R_3 = 30 \Omega$$

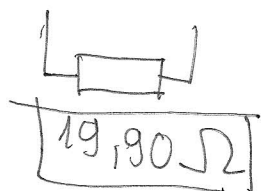
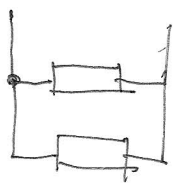
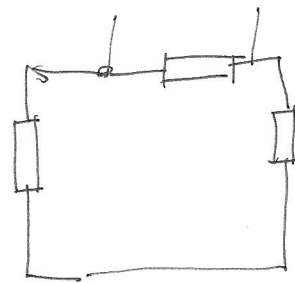
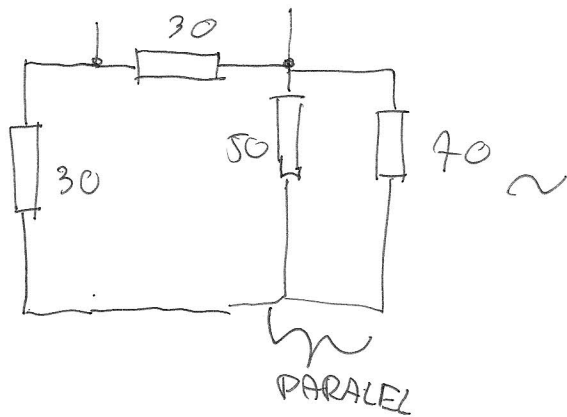
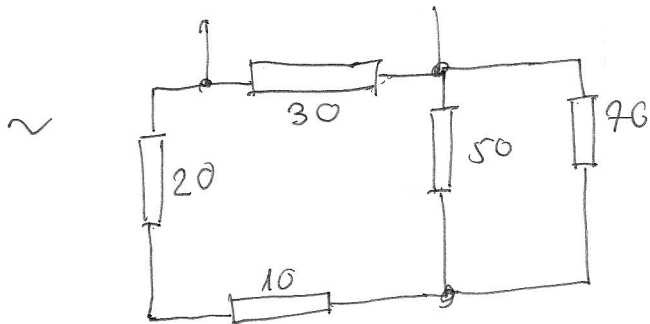
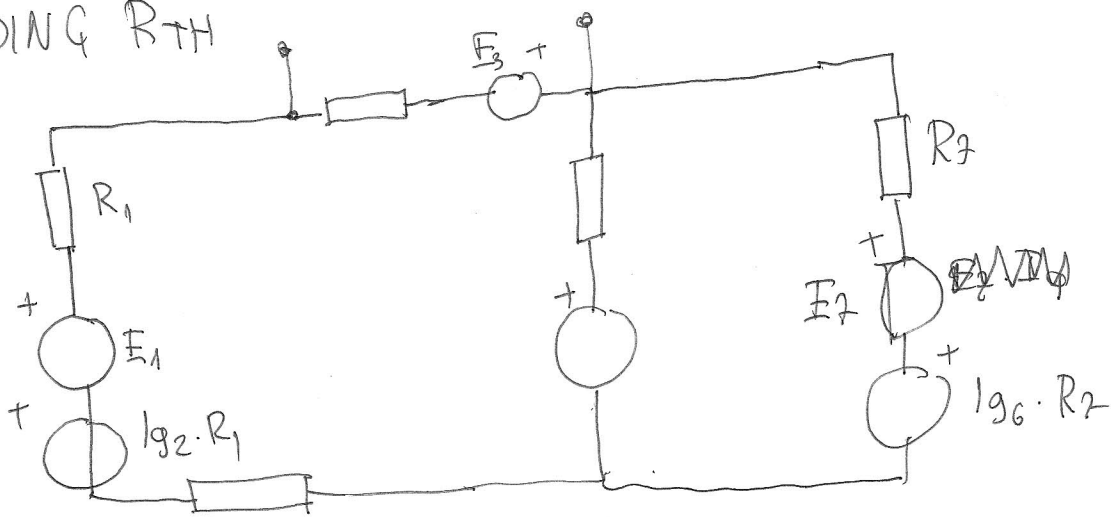
$$R_4 = 40 \Omega$$

$$R_5 = 50 \Omega$$

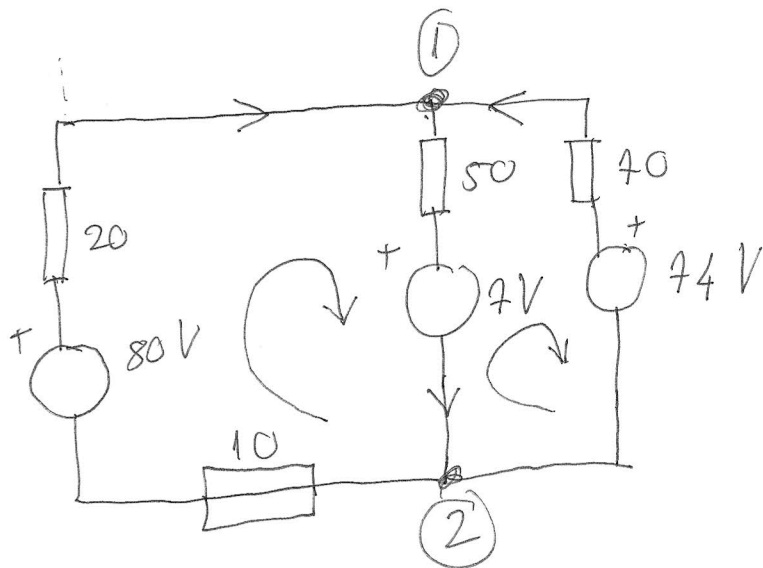
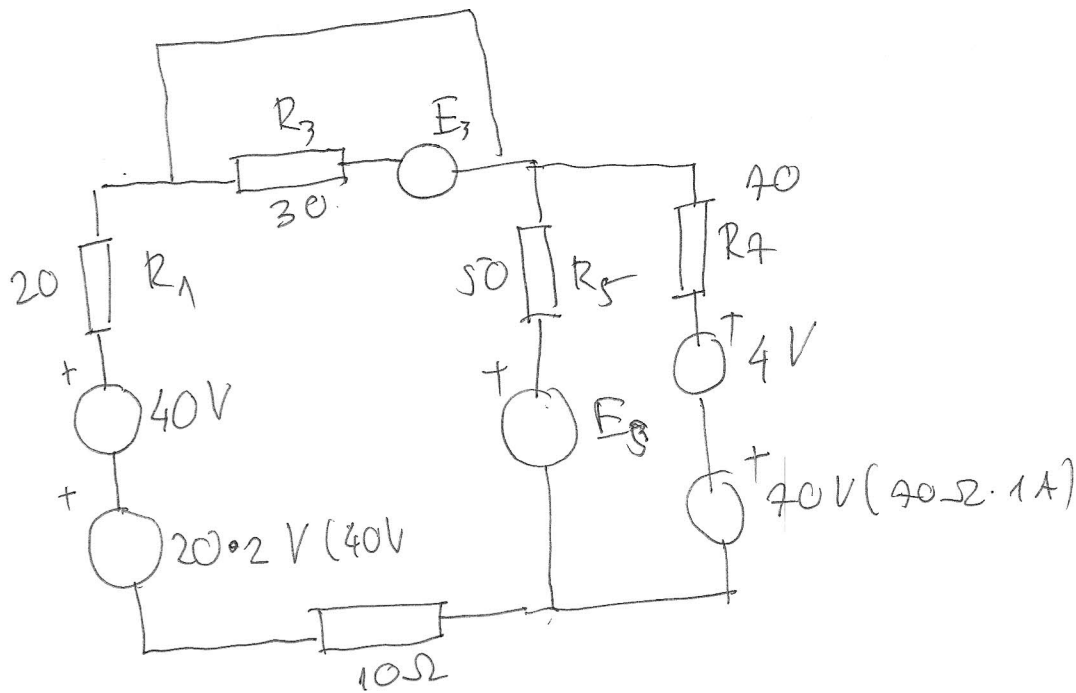
$$R_7 = 20 \Omega$$



FINDING R_{TH}



$$R_{TH} = R_{uor} = 19,90 \Omega$$



$$R_p = \begin{bmatrix} 80 & -50 \\ -50 & 120 \end{bmatrix}$$

$$j_p = R_p^{-1} e_p = \begin{bmatrix} 0.0169 & 0.0070 \\ 0.0070 & 0.0113 \end{bmatrix} \begin{bmatrix} 43 \\ -67 \end{bmatrix}$$

$$e_p = \begin{bmatrix} 43 \\ -67 \end{bmatrix}$$

$$j_p = \begin{bmatrix} 0.7620 \\ -0.2408 \end{bmatrix} \rightarrow I_{NORTON} \quad I_N = 0.7620 \text{ A}$$

$I_N = 0.126 \text{ A}$
(SHOULD BE)

NOT CORRECT