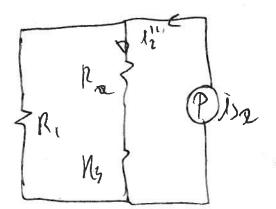
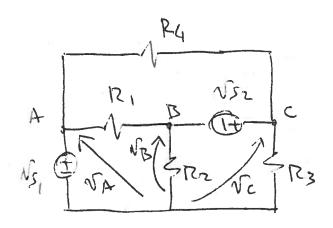


$$J_2'' - J_{1}(R_1 + R_3) = \frac{3.6}{12}$$



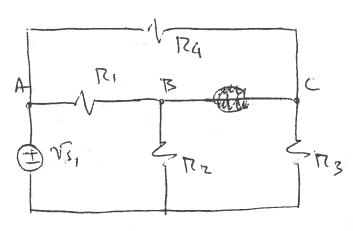
location NA, NB e Ne

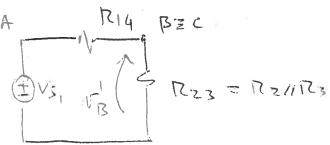


NA = NS, = 12 V

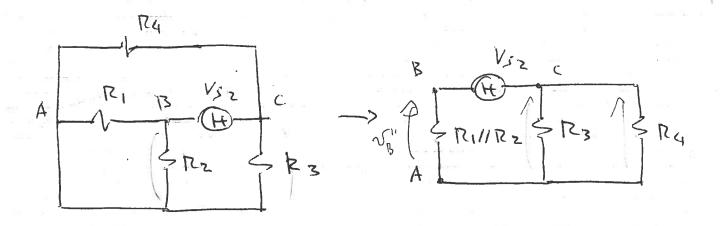
Applicione 19 teorena d' sorrables 17 inc

10 crab) NSZ 20





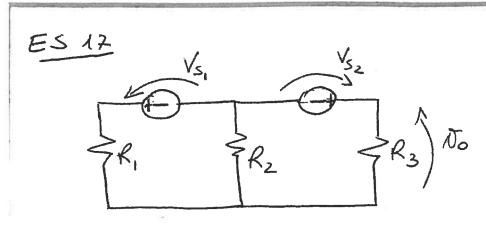
$$\sqrt{B} = \sqrt{c} = \sqrt{s_1} \frac{R_{23}}{S} = 12 \frac{\frac{24}{5}}{\frac{8}{5} + \frac{24}{5}} = 9V$$



$$N_{\rm B}^{11} = -N_{\rm S2} \frac{R_{\rm M}R_{\rm 2}}{R_{\rm M}R_{\rm 2} + R_{\rm 3}/R_{\rm 4}} = -3V$$

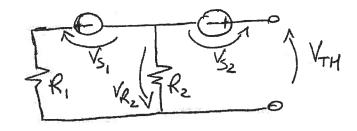
$$V_{\rm C} = N_{\rm S2} \frac{R_{\rm 3}/R_{\rm 4}}{R_{\rm M}R_{\rm 2} + R_{\rm 3}/R_{\rm 4}} = 7V$$

Ve= Ve +VE = 8+7=16V



$$V_{S_1} = 6V$$
 $V_{S_2} = 12V$
 $V_{I_1} = V_{I_2} = 22$
 $V_{I_2} = 42$

CALCOLIANO I PARAMETRI YEL MODELLO EQUIVALENTE DI THÉVENIN



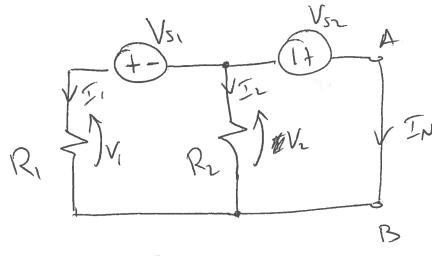
$$V_{R_2} = \frac{R_2}{R_1 + R_2} V_{S_1}$$

$$V_{TH} = V_{S_2} - V_{R_2}$$

$$= V_{S_2} - \frac{R_2}{R_1 + R_2} V_{S_1} = 8V$$

$$R_{1} = \frac{R_{1}R_{2}}{R_{1}+R_{2}} = \frac{4}{3}\Omega$$

$$\sqrt{\frac{R_{TH}}{R_3}} \sqrt{5} = \frac{R_3}{R_3 + R_{TH}} \sqrt{1} = \frac{24}{5} \sqrt{\frac{1}{5}}$$

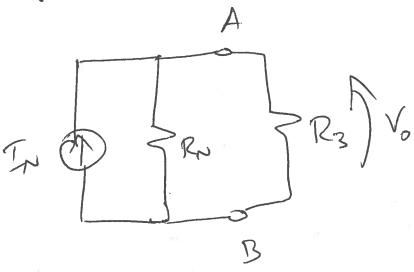


$$V_1 - V_{s_1} - V_{s_2}$$

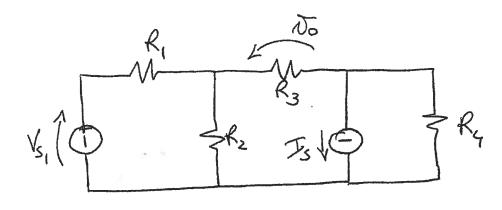
$$V_2 - - V_{s_2}$$

$$T_1 = \frac{V_1}{R_1} = -3A$$

$$T_2 = \frac{V_2}{R_2} = -3A$$



ES 18



$$V_{S} = 12V$$

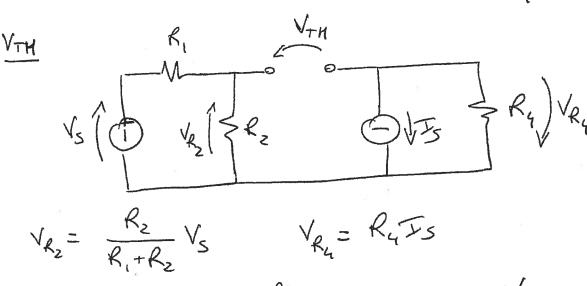
$$T_{S} = 2A$$

$$R_{1} = 3\Omega$$

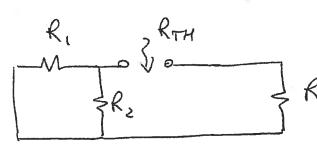
$$R_{2} = 6\Omega$$

$$R_{3} = 8\Omega$$

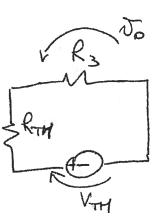
$$R_{4} = 2\Omega$$

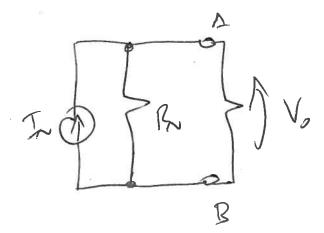


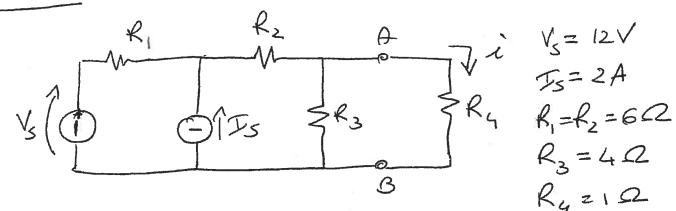
RTH



$$N_0 = \frac{R_3}{R_3 + R_{TH}} V_{TH} = 8V$$







$$V_{S} = 12V$$
 $T_{S} = 2A$
 $R_{1} = R_{2} = 6C$
 $R_{3} = 4C$
 $R_{4} = 1C$

SOVRAPPOSIZIONE

 $\frac{1}{2} \frac{1}{2} \frac{1}$



$$T_{3}^{"} = \frac{R_{1}}{R_{1} + R_{2} + R_{3}} T_{5} \qquad V_{TH}^{"} = \frac{R_{1}R_{3}}{R_{1} + R_{2} + R_{3}} T_{5}$$

$$V_{TH} = V_{TH}^{"} + V_{TH}^{"} = \frac{R_{3}}{R_{1} + R_{2} + R_{3}} V_{5} + \frac{R_{1}R_{3}}{R_{1} + R_{2} + R_{3}} T_{5} = 6 V$$

$$\frac{R_{TM}}{R_{1}} = \frac{R_{3}(R_{1}+R_{2})}{R_{1}+R_{2}+R_{3}} = 3.22$$

$$\frac{V_{TM}}{R_{1}} = \frac{V_{TM}}{R_{1}+R_{TM}} = \frac{3}{2}A$$

$$\frac{V_{1}}{R_{1}} = \frac{V_{2}}{R_{1}+R_{2}} = \frac{3}{2}A$$

$$\frac{V_{2}}{R_{1}} = \frac{V_{2}}{R_{1}} = \frac{1}{2}A$$

$$\frac{V_{3}}{R_{1}} = \frac{V_{2}}{R_{1}} = \frac{3}{2}A$$

$$\frac{V_{2}}{R_{1}} = \frac{V_{2}}{R_{2}} = \frac{1}{2}A$$

$$\frac{V_{3}}{R_{1}} = \frac{V_{2}}{R_{1}} = \frac{1}{2}A$$

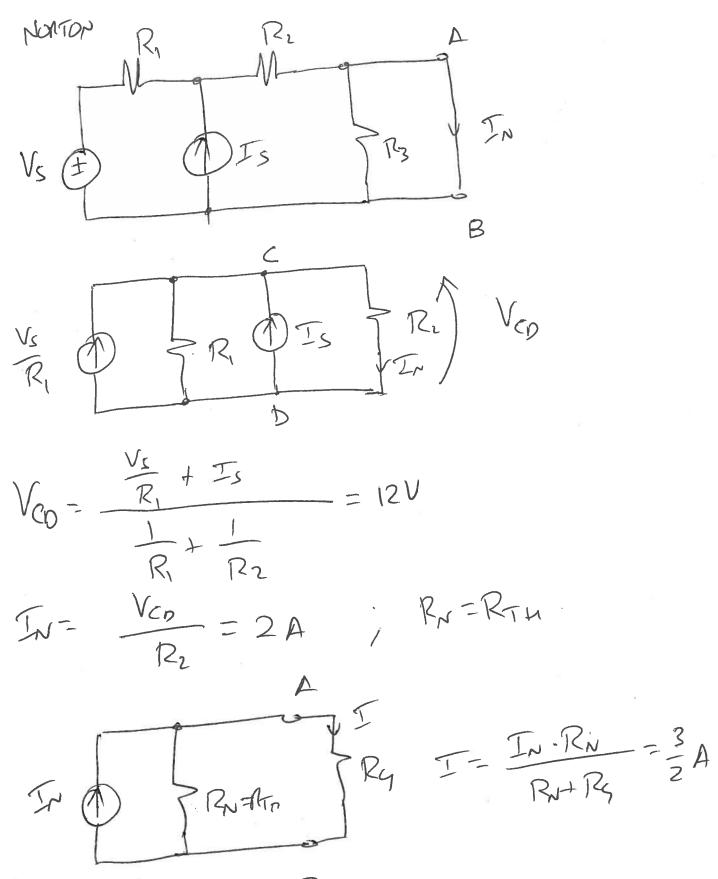
$$\frac{V_{3}}{R_{1}} = \frac{1}{2}A$$

$$\frac{V_{3}}{R_{1}} = \frac{1}{2}A$$

$$\frac{V_{3}}{R_{1}} = \frac{1}{2}A$$

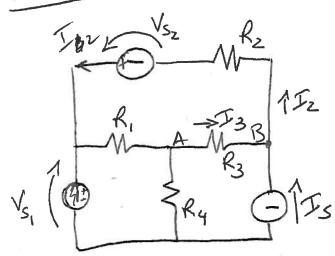
$$\frac{V_{4}}{R_{1}} = \frac{1}{2}A$$

$$\frac{V_{5}}{R_{1}} =$$



B





$$V_{S_1} = 6V$$

$$V_{S_2} = 10V$$

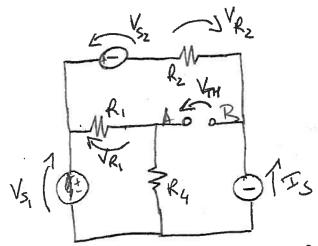
$$V_{S_2} = 2A$$

$$R_1 = 6Q$$

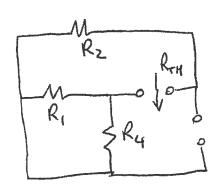
$$R_2 = 7Q$$

$$R_3 = 5Q$$

$$R_4 = 3Q$$



$$V_{R_2} = R_2 T_S = 4 A$$
 $V_{R_1} = \frac{R_1}{R_1 + R_4} V_S = 4 V$



$$R_{TH} = R_1 / R_4 + R_2$$

$$= \frac{R_1 R_4}{R_1 + R_4} + R_2 = 9.02$$

