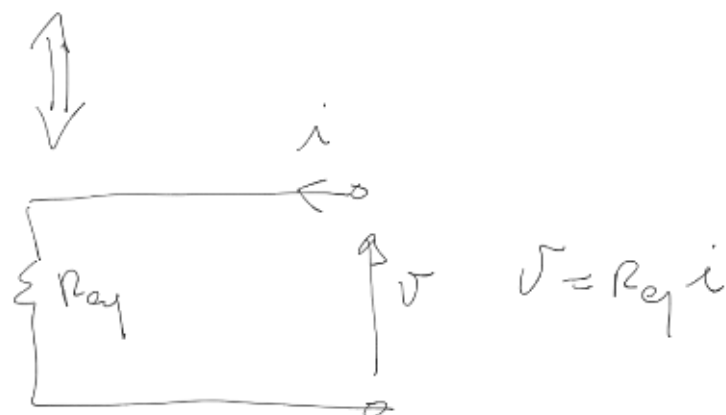
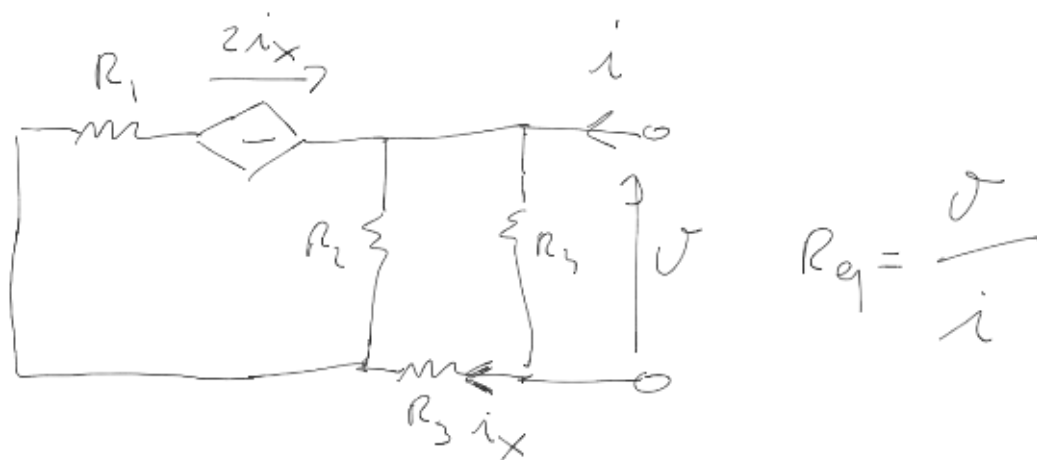
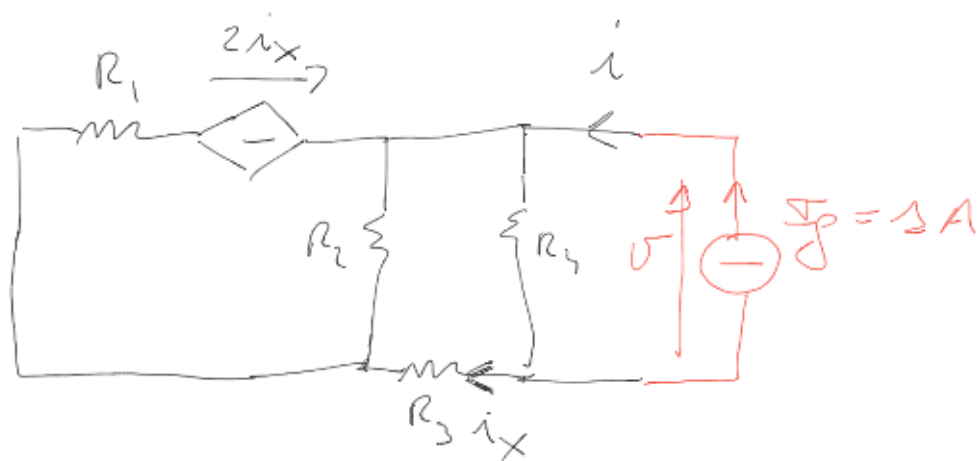


Lezione 22

Metodo Generale per il calcolo della resistenza equivalente.



Generatore di prova (di corrente)



Applicando nodi o anelli e calcolo V .

$$R_{eq} = \frac{V}{i}$$

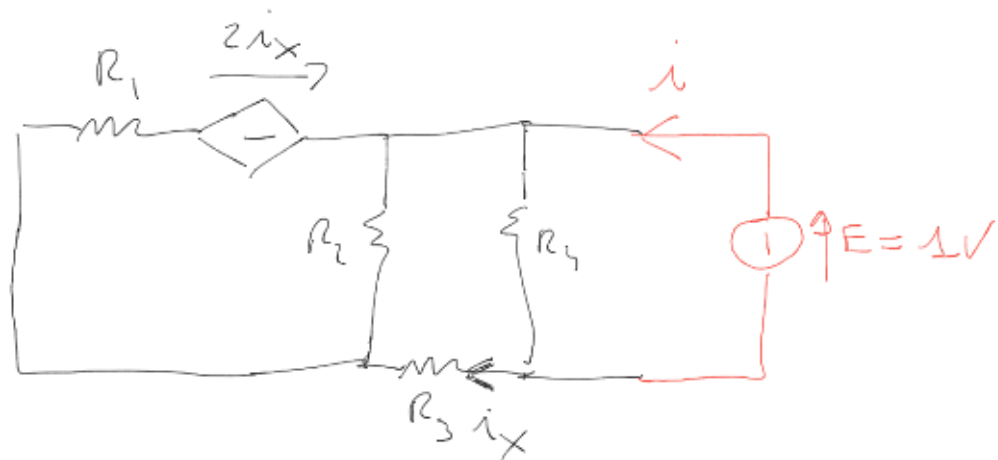
1 1

SE AD ESEMPIO NI VIENE $\mathcal{I} = 18 \text{ V}$ ALLORA

$$18 = R_{eq} \cdot 1$$

$$R_{eq} = 18 \Omega$$

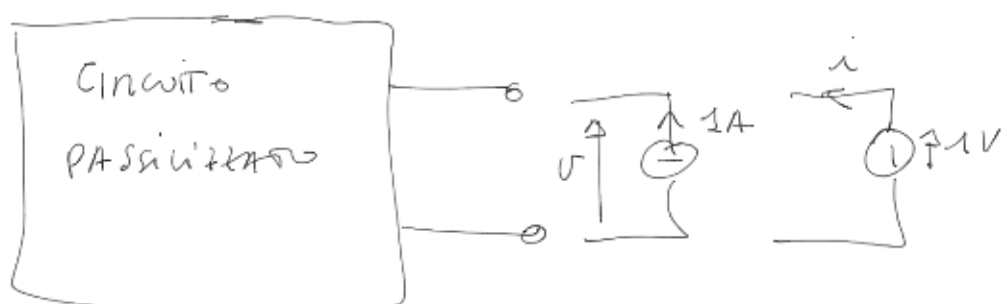
GENERATORE DI PROVA (DI TENSIONE)



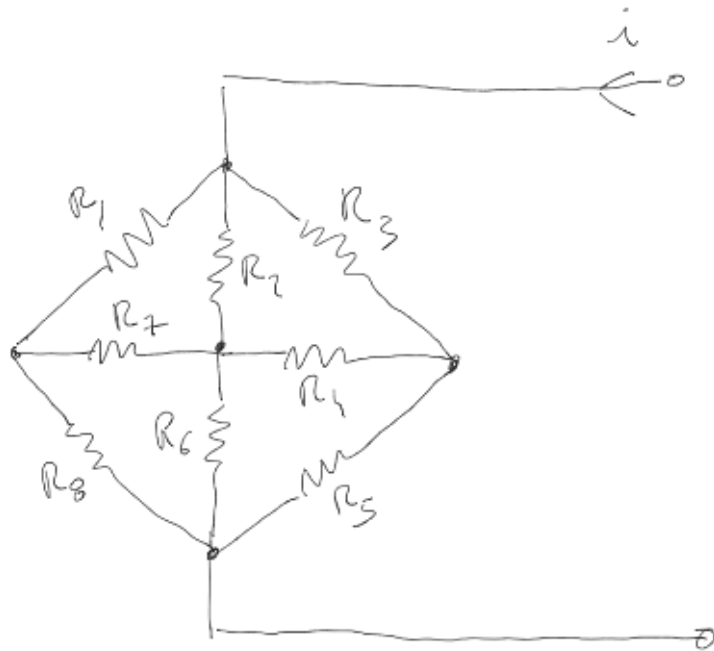
QUESTA VOLTA NI CALCO LA CORRENTE \bar{i}

$$R_{eq} = \frac{E}{\bar{i}} = 18 \Omega$$

QUINDI IN GENERALE:

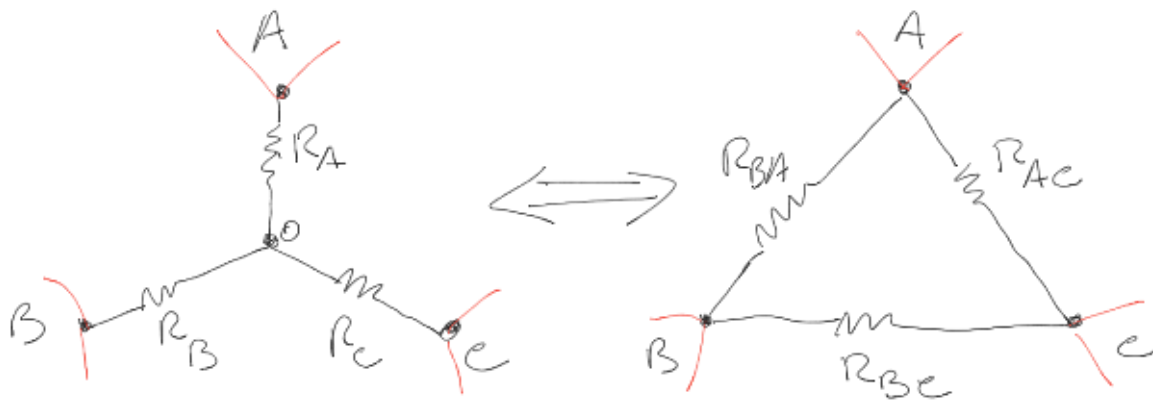


UN ALTRO CASO IN CUI DEVO UTILIZZARE IL GENERAT DI PROVA È QUANDO NON HO NESSUNA CONFIGUR. SERIE O PARALLELO TRA RESISTENZE.



$$V = R_{eq} \cdot i$$

UTILIZZO LA TRASFORMAZIONE STELLA-TRIANGOLO



$$R_A = \frac{R_{BA} \cdot R_{AC}}{R_{AB} + R_{AC} + R_{BC}}$$

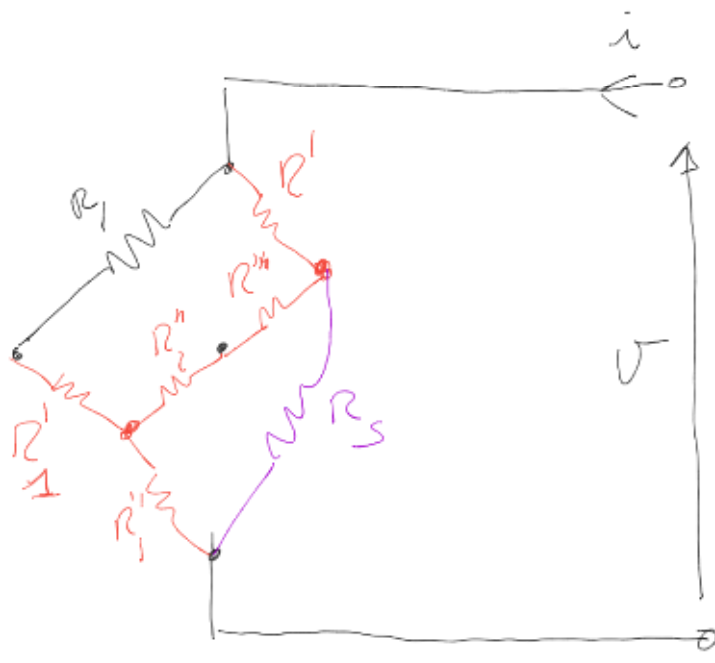
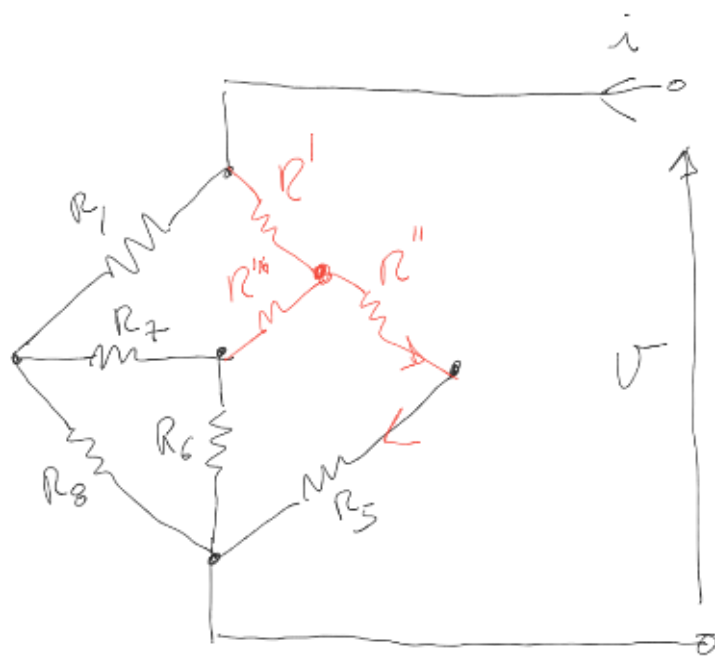
$$R_B = \frac{R_{BA} R_{BC}}{R_{AB} + R_{AC} + R_{BC}}$$

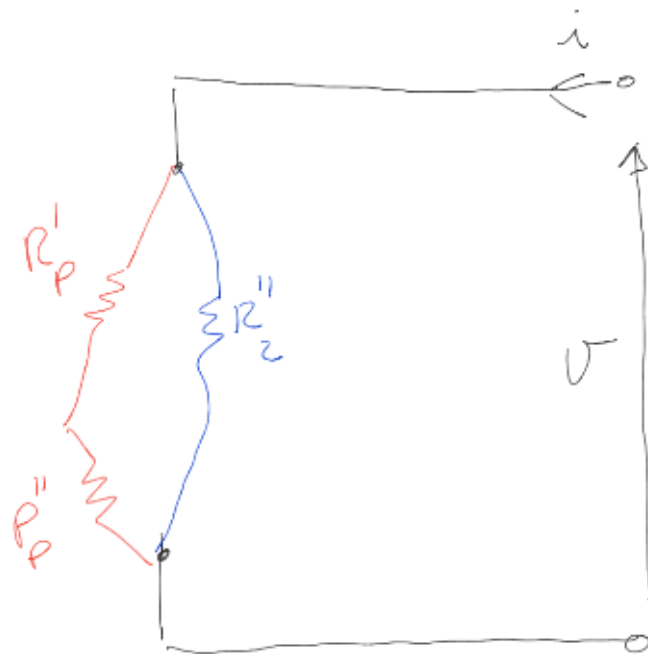
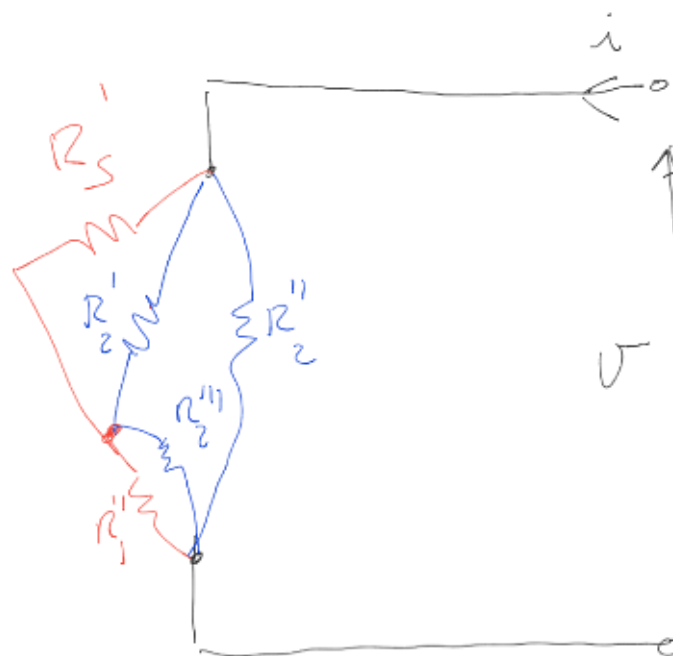
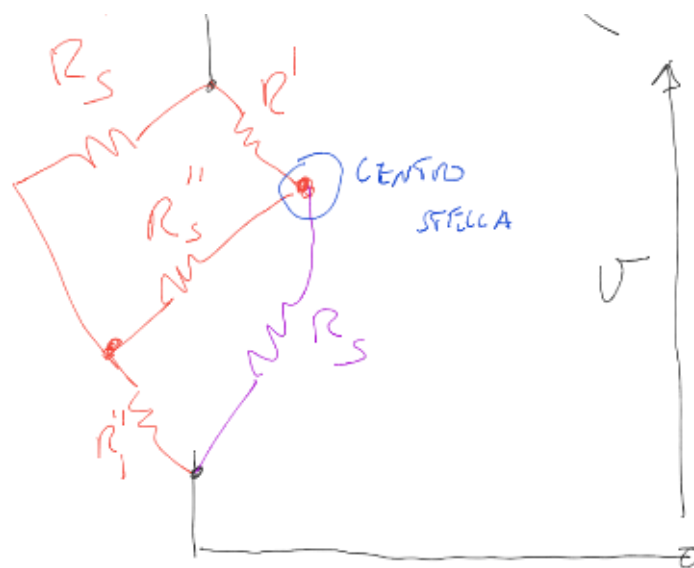
$$R_{BA} = \frac{R_A R_B + R_A R_C + R_C R_B}{R_C}$$

$$R_{AC} = \frac{R_A R_B + R_A R_C + R_C R_B}{R_B}$$

$$R_C = \frac{R_{AC} \cdot R_{BC}}{R_A} \quad \parallel \quad R_{BC} = \frac{R_B \cdot R_C}{R_A}$$

Applichiamo LA TRASF. STELLA-TRIANGOLO





$$R_n = (R'_1 + R''_1) \parallel R''_2$$

$$\| \gamma \|_2 = (\| \rho \|_1 + \| \rho \|_2) / \| \rho \|_2$$