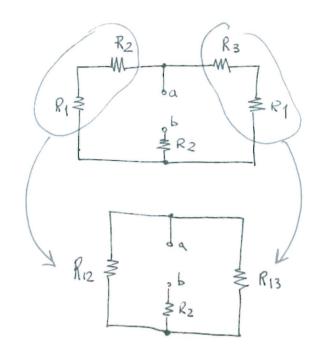
RESISTENZA EQUIVALENTE



EX



$$R_1 = 152$$

 $R_2 = 252$
 $R_3 = 352$

Determinare la Rey ai miratti ab

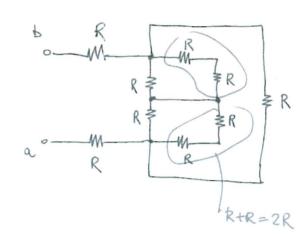
$$R_{12} = R_1 + R_2 = 352$$

 $R_{13} = R_1 + R_3 = 42$

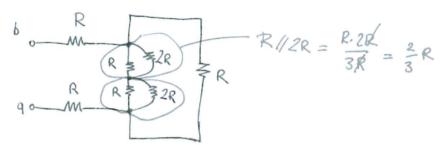
$$R_2 \stackrel{\triangleleft}{\underset{\triangleright}{\bigvee}} R_{123}$$

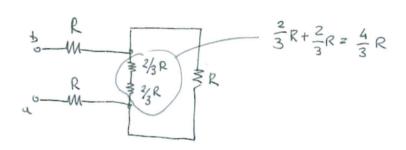
$$R_{123} = R_{12} / / R_{13} = \frac{R_{12} R_{13}}{R_{12} + 1 R_{13}} = \frac{3 \cdot 4}{7} = \frac{12}{7} \Omega$$

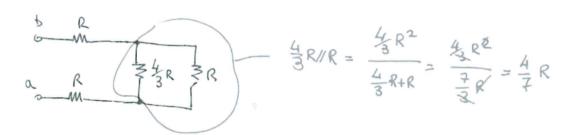




Morsetti ak



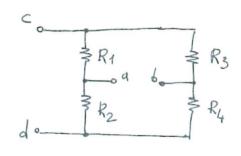




= 2,57 Ω



£x|

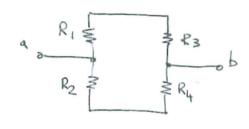


$$R_1 = 10 \Omega_1$$
; $R_2 = 20 \Omega_2$
 $R_3 = 15 \Omega_1$; $R_4 = 5 \Omega_2$

Determinare la resistenza quivalente Rab, vista al morselti a, b nei Gri

- 1) poli col aperti.
- 2) poli cel diini in contocracito

1) Poli gd aperti

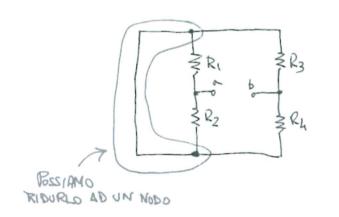


$$R_{13} = R_1 + R_3 = 10 + 15 = 25 \Omega$$

$$R_{24} = R_2 + R_4 = 20 + 5 = 25 \Omega$$

$$R_{4b} = R_{13} / R_{24} = \frac{25}{2} = 12.5 \Omega$$

2) Poli o, cl in contour wito



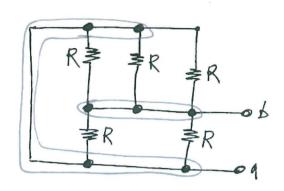
$$R_{Z}$$
 R_{4} R_{3} R_{4}

$$R_{12} = R_1 I/R_2 = \frac{R_1 R_2}{R_1 + R_2} = \frac{10.20}{30} = \frac{20}{3} \Omega$$

$$R_{34} = R_3 / R_4 = \frac{R_3 R_4}{R_2 + R_4} = \frac{15.5}{20} = \frac{15}{4} \frac{7}{10}$$

$$R_{Ab} = R_{1Z} + R_{34} = \frac{20}{3} + \frac{15}{4} = \frac{80 + 45}{12} = \frac{125}{12} \approx 10,42 \Omega$$

EX

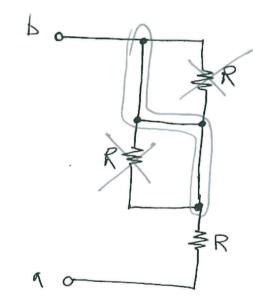


Det. la resistenza cp.

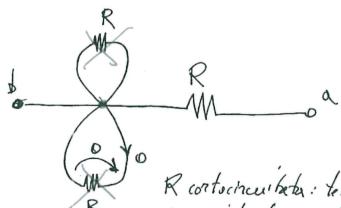
Due soli nodi a, b: tatte le R sono in /

$$R_{eq} = \frac{1}{\frac{5}{1}R} = \frac{R}{5}$$

EX

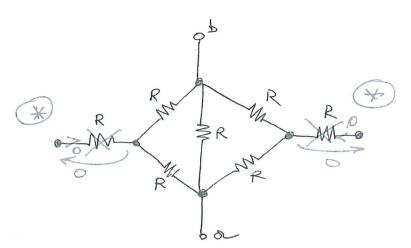


Det. la resistenza ep. Nisha aimorzetti a, b



R contacinculator: tensione e comente sono identicamente nulle





Determinare la resistenza equivalente Rep vista ai morretti a, b

Ci sono due resistori apenti, percorso da corrente mulla identiamente -> tensione nulla -> mon danno contributo alla resistenza equivalente vista di morcetti ajo

$$Rep = \frac{1}{\frac{1}{2R} + \frac{1}{R} + \frac{1}{2R}} =$$

$$= \frac{1}{\frac{4}{2R}} = \frac{R}{2}$$