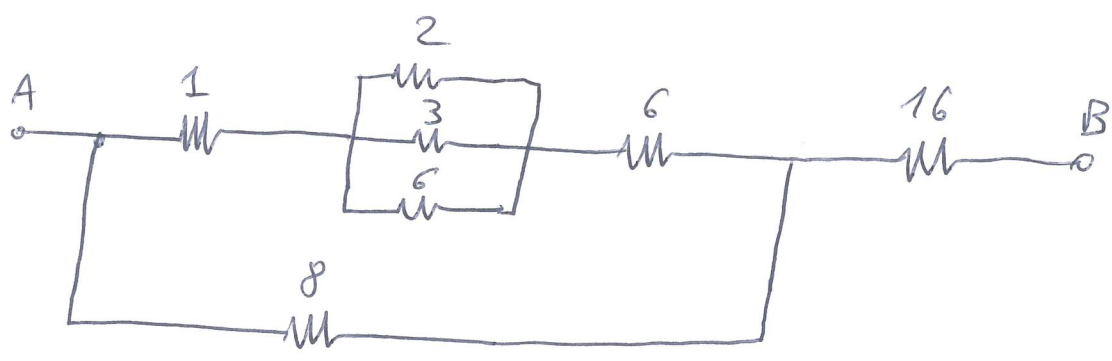


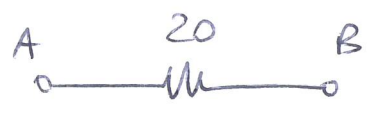
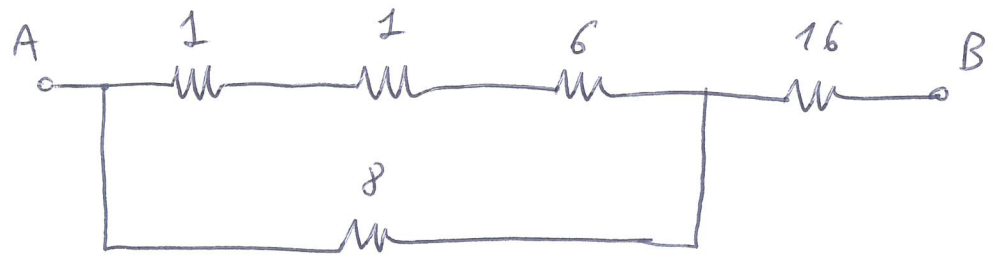
SERIE - PARAL. - PART.

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2)



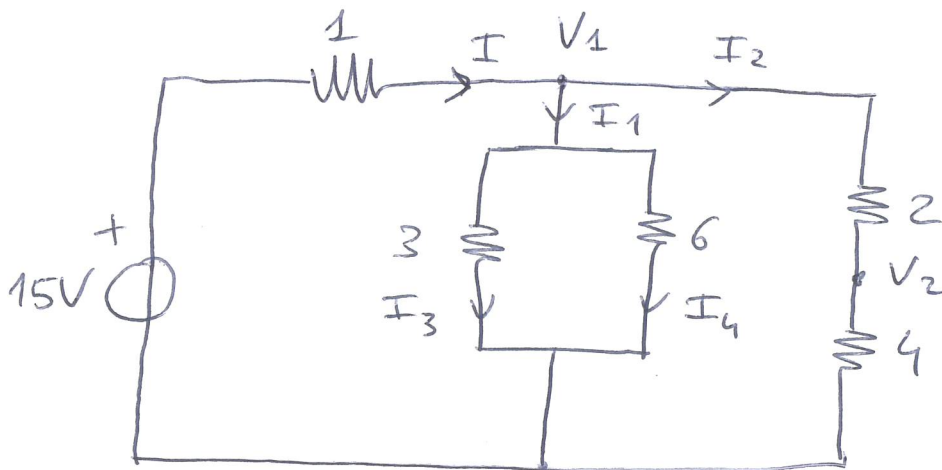
$R_{AB} ?$



$R_{AB} = 20 \Omega$

# SERIE - PARAL. - PART.

5)

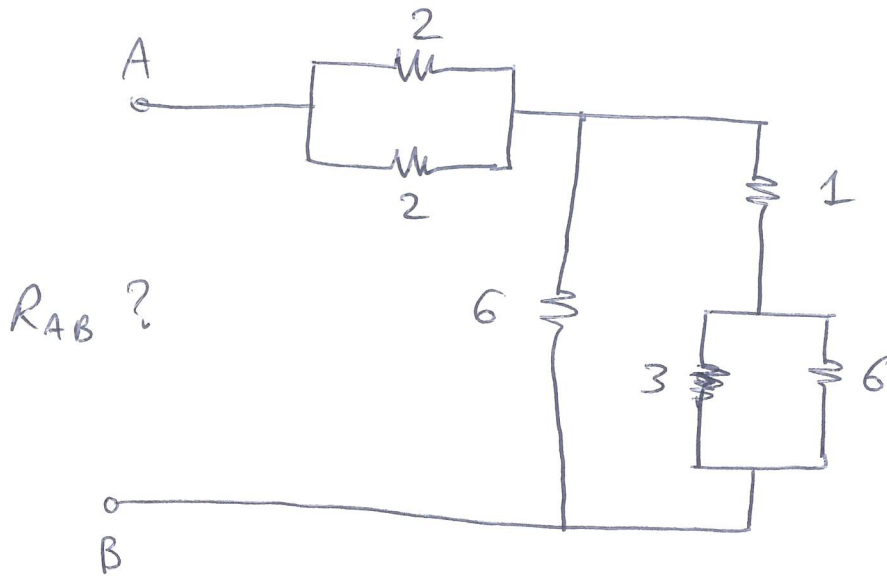


$$\left\{ \begin{array}{l} I = 6 \text{ A} \\ I_1 = 4.5 \text{ A} \\ I_2 = 1.5 \text{ A} \\ I_3 = 3 \text{ A} \\ I_4 = 1.5 \text{ A} \end{array} \right.$$

$$\left\{ \begin{array}{l} V_1 = 9 \text{ V} \\ V_2 = 6 \text{ V} \end{array} \right.$$

# SERIE - PARAL. - PART.

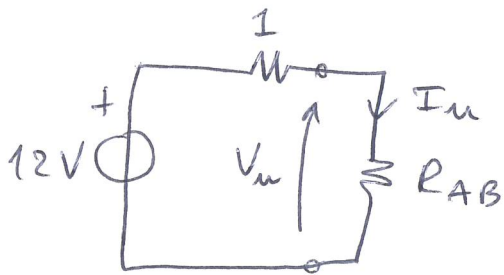
6)



$R_{AB} ?$

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

ESEMPIO:

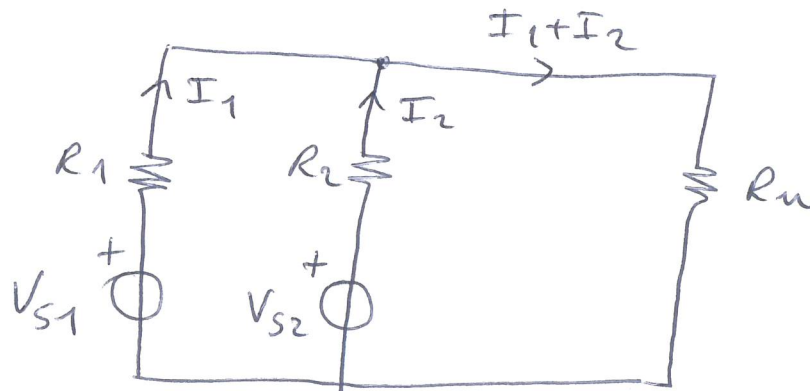


$$V_n = \frac{3}{3+1} 12 = 9V$$

$$I_n = \frac{12}{4} = 3A$$

# SERIE - PARAL. - PART.

8)



$$V_{S1} = V_{S2} = 12 \text{ V}$$

$$R_1 = 0.02 \Omega$$

$$R_2 = 0.1 \Omega$$

$$\begin{cases} R_1 I_1 = R_2 I_2 & (V_{S1} - R_1 I_1 + R_2 I_2 - V_{S2} = 0) \\ V_{S1} - R_1 I_1 - R_n (I_1 + I_2) = 0 \end{cases}$$

$$I_1 = \frac{R_2}{R_1} I_2 \Rightarrow I_2 = \frac{V_{S1}}{6R_n + R_2} = \frac{12}{60.1} \approx 0.2 \text{ A}$$

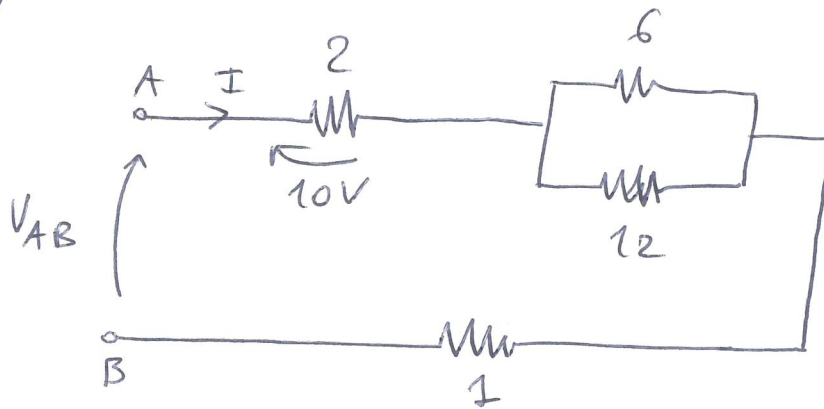
$$I_1 \approx 1 \text{ A}$$

$$P_1 = V_{S1} I_1 = 12 \text{ W}$$

$$P_2 = V_{S2} I_2 = 2.4 \text{ W}$$

# SERIE - PARAL. - PART.

9)



$$I = \frac{10}{2} = 5 \text{ A}$$

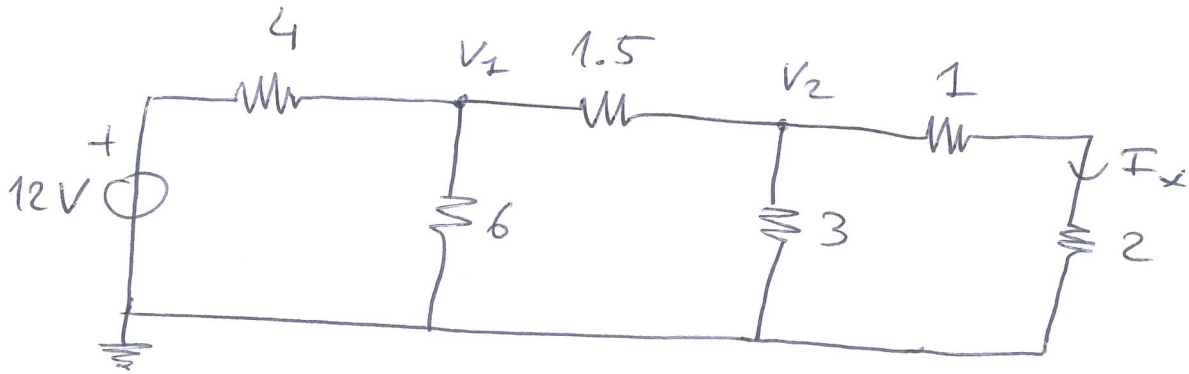
$$R_p = 6 // 12 = 4 \Omega$$

$$V_{AB} = I(2 + 4 + 1) = 35 \text{ V}$$

SERIE - PART. - PARAL.

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10)



$$V_2 = \frac{1.5}{1.5 + 1.5} V_1 = \frac{V_1}{2}$$

$$V_1 = \frac{2}{2 + 4} 12 = 4 \text{ V}$$

$$\Rightarrow V_2 = 2 \text{ V}$$

$$I_x = \frac{V_2}{2 + 1} = \frac{2}{3} \text{ A}$$