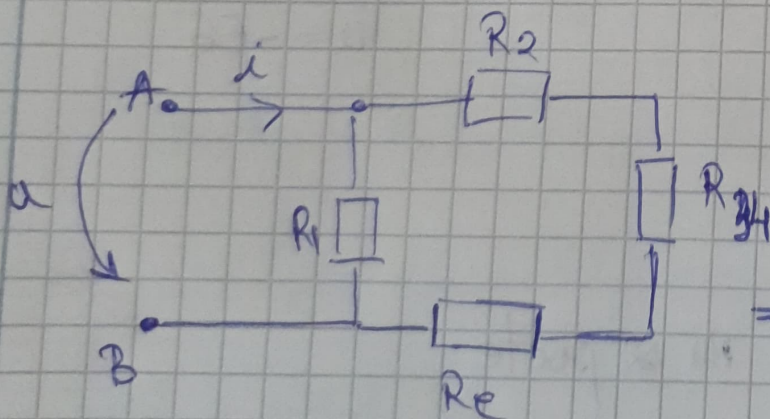


~~$R_{23} = \frac{R_2 \cdot R_3}{R_2 + R_3} = \frac{1 \cdot 6}{1 + 6} = \frac{6}{7} \Omega$~~

~~$R_{567} = \frac{R_5 \cdot R_6 \cdot R_7}{R_5 + R_6 + R_7} = \frac{3 \cdot 3 \cdot 3}{3 + 3 + 3} = 1 \Omega$~~

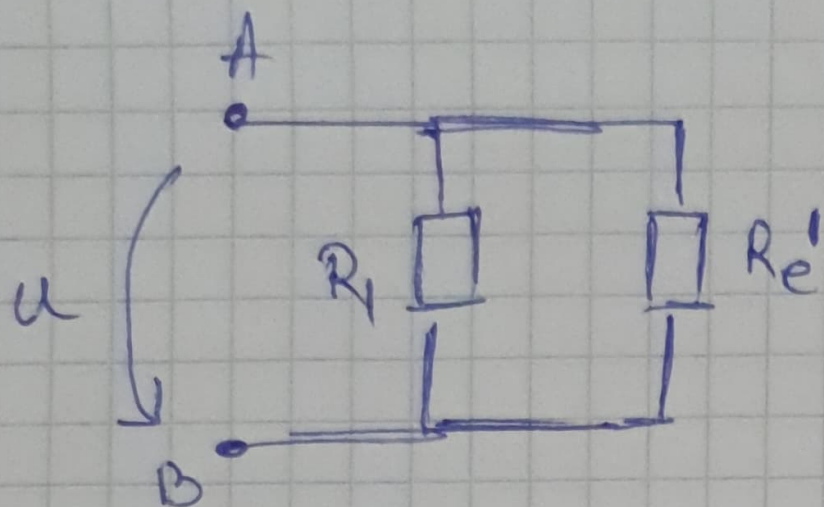
$$R_{43} = \frac{R_4 \cdot R_3}{R_4 + R_3} = \frac{3 \cdot 6}{3 + 6} = 2 \Omega$$



$$\frac{1}{R_e} = \frac{1}{R_5} + \frac{1}{R_6} + \frac{1}{R_7} =$$

$$= \frac{1}{R_e} = \frac{1}{3} + \frac{1}{3} + \frac{1}{3} \Rightarrow$$

$$\Rightarrow \frac{1}{R_e} = 3 \cdot \frac{1}{3} = 1 \Omega \Rightarrow R_e = 1 \Omega$$



$$R_{e'} = R_2 + R_{34} + R_e = 4 + 2 + 1 = 7 \Omega.$$

$$R_{eq} = \frac{R_1 \cdot R_{e'}}{R_1 + R_{e'}} = \frac{4 \cdot 7}{4 + 7} = 2 \Omega. \quad \Rightarrow R_{AB} = 2 \Omega$$

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

$$u(i) = i \cdot R_{AB} = 2i$$