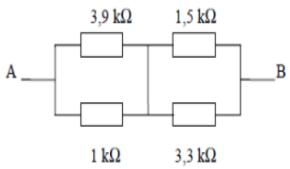
(Reminders on the fundamental laws of electricity)

Exercise 1:

The dipole AB consists of four resistors connected together. Determine the equivalent resistance of this dipole.

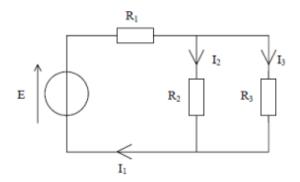


Exercise 2:

Consider the electrical circuit shown in the figure.

Calculate the currents I_1 , I_2 and I_3 .

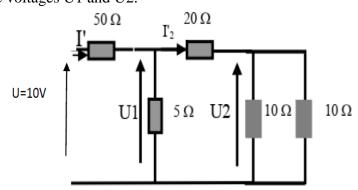
Given: E=6 V, R_1 =270 Ω , R_2 =470 Ω , R_3 =220 Ω



Exercise 3:

Consider the electrical circuit shown in the figure.

- Calculate the currents I' and I'2.
- Calculate the voltages U1 and U2.



Exercise 4:

The electrical circuit shown in the figure consists of a battery (emf 9 V, internal resistance 2 Ω) connected to a resistor (8 Ω).

To understand the behavior of the circuit, it is sufficient to determine the characteristic U(I).

