



Module: Fundamental Electrical Engineering 1

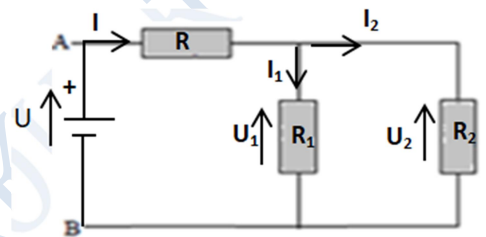
TD N°2.1: The diet continues

Exercice 1

Consider the electrical circuit opposite : $U=15V$, $R=10\Omega$, $R_1=5\Omega$, $R_2=10\Omega$,

Calculate:

- The equivalent resistance $R_{\acute{e}q1}$
- Current intensity I_2
- The voltage U_1 across R_1



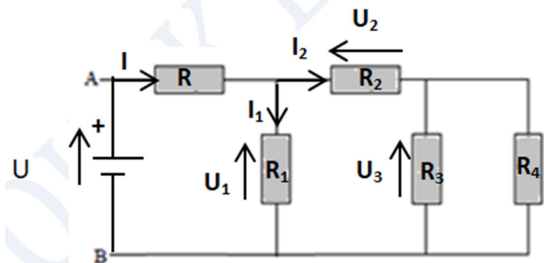
Exercice 2

Consider the electrical circuit opposite:

$U=15 V$; $R=10\Omega$, $R_1=5\Omega$, $R_2=10\Omega$, $R_3=10\Omega$, $R_4=10\Omega$

Calculate:

- The equivalent resistance $R_{\acute{e}q2}$
- The intensity of the current I_2
- The voltage U_1 across R_1
- The voltage U_3 across R_3 .



Exercice 3

Consider : $R_1=10\Omega$, $R_2=15\Omega$, $R_3=10\Omega$, $R_4=5\Omega$.

Calculate the equivalent resistance seen from points A and B for the different assemblies

