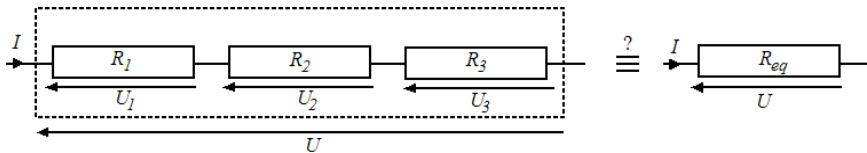
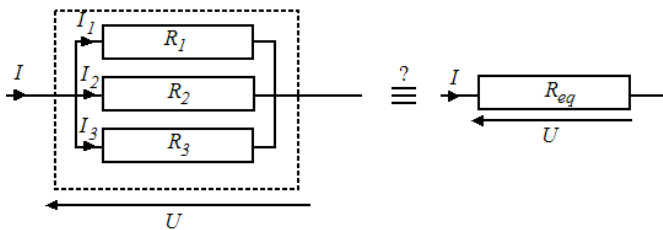


ACTIVITE 5 : Résistances équivalentes

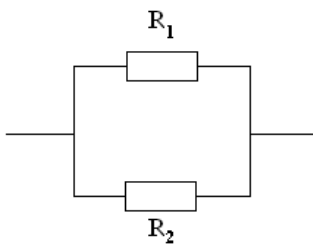
CORRECTION

SERIE


$$R_{eq} = R_1 + R_2 + R_3$$

DERIVATION


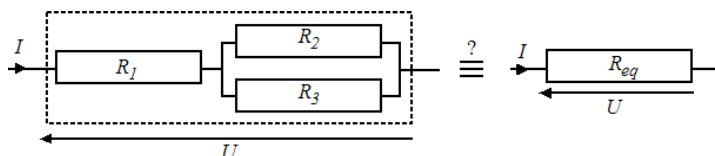
$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

CAS PARTICULIER


$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2}$$

$$\frac{1}{R_{eq}} = \frac{R_2}{R_1 \times R_2} + \frac{R_1}{R_2 \times R_1} = \frac{R_2 + R_1}{R_1 \times R_2}$$

$$\frac{R_{eq}}{1} = \frac{R_1 \times R_2}{R_2 + R_1}$$

SERIE et DERIVATION
EXEMPLES


$$R_{eq} = R_1 + \frac{R_3 \times R_2}{R_2 + R_3} = \frac{R_1 \times (R_2 + R_3)}{R_2 + R_3} + \frac{R_3 \times R_2}{R_2 + R_3} = \frac{R_1 \times R_2 + R_1 \times R_3 + R_3 \times R_2}{R_2 + R_3}$$