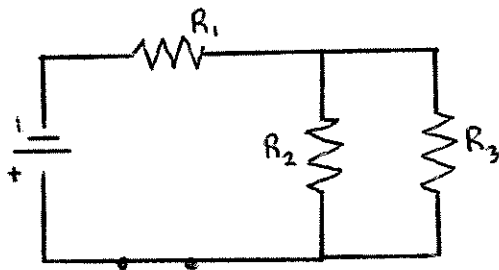


LES CIRCUITS PLUS DIFFICILES

①



$V_T = 6V$ $V_1 = 2V$ $I_T = 0,5A$ $I_2 = 0$

$I_1 =$

$I_2 =$

$I_3 =$

$V_1 =$

$V_2 =$

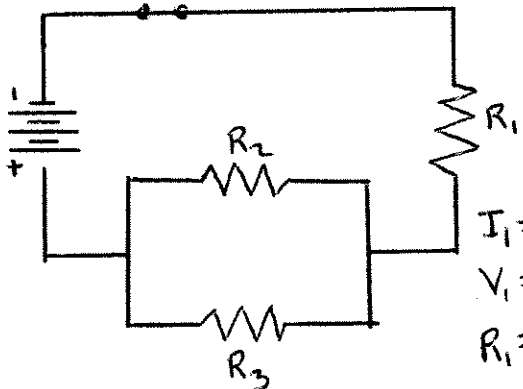
$V_3 =$

$R_1 =$

$R_2 =$

$R_3 =$

②



$V_1 = 2V$ $V_3 = 2,5V$ $I_1 = 0,04A$

$R_3 = 100\Omega$

$I_1 =$

$I_2 =$

$I_3 =$

$V_1 =$

$V_2 =$

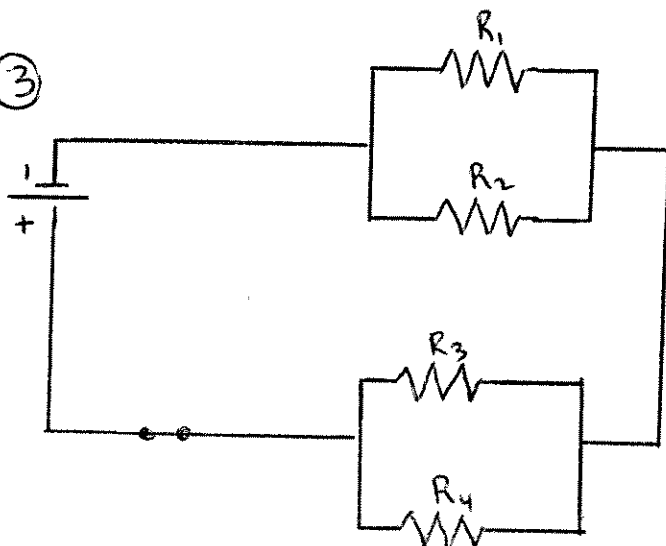
$V_3 =$

$R_1 =$

$R_2 =$

$R_3 =$

③



$V_T = 9V$ $I_T = 2A$

$V_1 = 3V$ $R_2 = 4,5\Omega$

$I_4 = 0,5A$

$I_1 =$

$I_2 =$

$I_3 =$

$I_4 =$

$V_1 =$

$V_2 =$

$V_3 =$

$V_4 =$

$R_1 =$

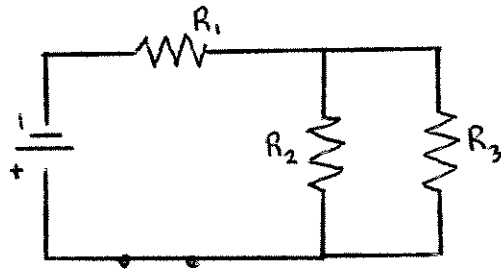
$R_2 =$

$R_3 =$

$R_4 =$

LES CIRCUITS PLUS DIFFICILES

①



$$V_T = 6V \quad V_1 = 2V \quad I_T = 0,5A \quad I_2 = 0,1A$$

$$I_1 = 0,5A$$

$$I_2 = 0,1A \text{ (donné)}$$

$$I_3 = 0,5A - 0,1A = 0,4A$$

$$V_1 = 2V \text{ (donné)}$$

$$V_2 = 6V - 2V = 4V$$

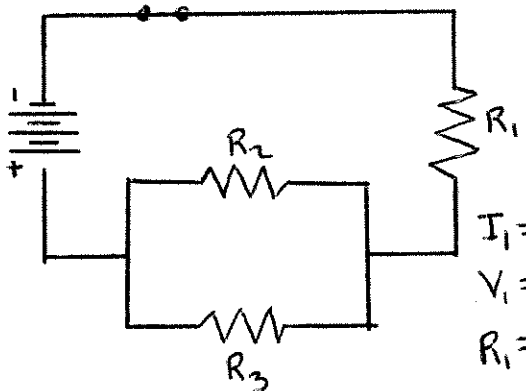
$$V_3 = 4V$$

$$R_1 = \frac{V_1}{I_1} = \frac{2V}{0,5A} = 4\Omega$$

$$R_2 = \frac{V_2}{I_2} = \frac{4V}{0,1A} = 40\Omega$$

$$R_3 = \frac{V_3}{I_3} = \frac{4V}{0,4A} = 10\Omega$$

②



$$V_1 = 2V \quad V_3 = 2,5V \quad I_1 = 0,04A$$

$$R_3 = 100\Omega$$

$$I_1 = 0,04A \text{ (donné)} \quad I_2 = 0,04A - 0,025A = 0,015A \quad I_3 = \frac{V_3}{R_3} = \frac{2,5V}{100\Omega} = 0,025A$$

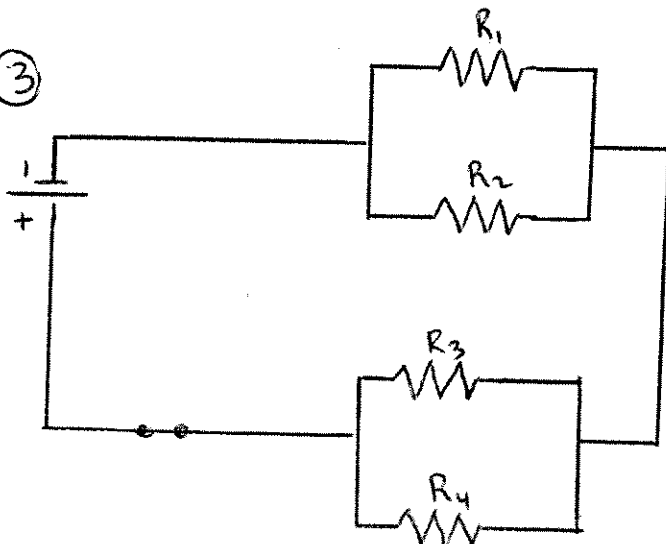
$$V_1 = 2V \text{ (donné)} \quad V_2 = 2,5V \text{ (donné)} \quad V_3 = 2,5V$$

$$R_1 = \frac{V_1}{I_1} = \frac{2V}{0,04A} = 50\Omega \quad R_2 = \frac{V_2}{I_2} = \frac{2,5V}{0,015A} = 166,7\Omega$$

$$R_3 = 100\Omega \text{ (donné)}$$

$$= 166,7\Omega$$

③



$$V_T = 9V \quad I_T = 2A$$

$$V_1 = 3V \quad R_2 = 4,5\Omega$$

$$I_4 = 0,5A$$

$$I_1 = 2A - 0,67A = 1,33A \quad I_2 = \frac{V_2}{R_2} = \frac{3V}{4,5\Omega} = 0,67A \quad I_3 = 2A - 0,5A = 1,5A \quad I_4 = 0,5A \text{ (donné)}$$

$$V_1 = 3V \text{ (donné)} \quad V_2 = 3V \quad V_3 = 6V \quad V_4 = 6V$$

$$R_1 = \frac{V_1}{I_1} = \frac{3V}{1,33A} = 2,25\Omega \quad R_2 = 4,5\Omega \text{ (donné)} \quad R_3 = \frac{V_3}{I_3} = \frac{6V}{1,5A} = 4\Omega \quad R_4 = \frac{V_4}{I_4} = \frac{6V}{0,5A} = 12\Omega$$