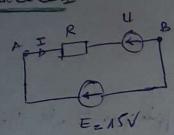
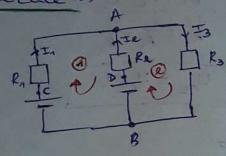
Correction



1) En appliquent da loi des mailles:

$$E = U + RI \Rightarrow I = \frac{E - U}{R}$$

ANS T.



- 1) Le sens des courants étant incommes, choisissans les arts trairement.
 - @ On a 3 in connues (I, Iz, I3), il nons faut donc 3 éq. instépendantes.
 - @ La loi des Noards:

An nound A: In+I2= I3 1

@ La loi des mailles :

- 1 Pre maille - ADRCAS, RAIL-EI + Ez - REIZ=0 = Ez-E1 = REIZ-RaIA = 5I2 - 2I₁ = 50 (2)

- 2 ene maille - ABDA: R3I3+ReIz-E2=0 = = = R2I2+R3I3 = 5I2+10I3=70

Regroupons le 3 eq. :

$$\int_{1+1}^{1} I_{2} = I_{3} \quad 0$$

$$\int_{1}^{1} I_{2} - 2I_{3} = I_{0} \quad 0$$

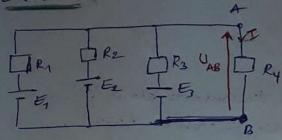
$$\int_{1}^{1} I_{2} - 2I_{3} = I_{0} \quad 0$$

$$\int_{1}^{1} I_{2} - 2I_{3} = I_{0} \quad 0$$

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EL JADIDA



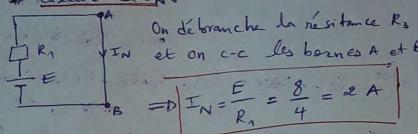


En appliquent le thé orime

$$U_{AB} = \frac{E_1}{R_1} + \frac{E_2}{R_2} + \frac{O}{R_3}$$

$$\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

Exercice 40

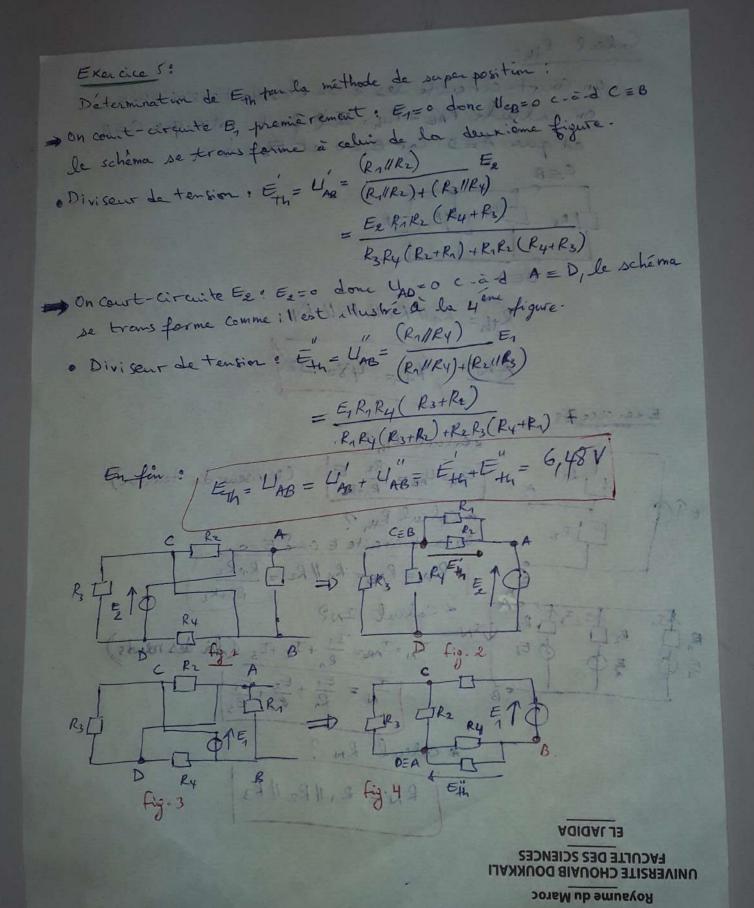


Calcul de RN:

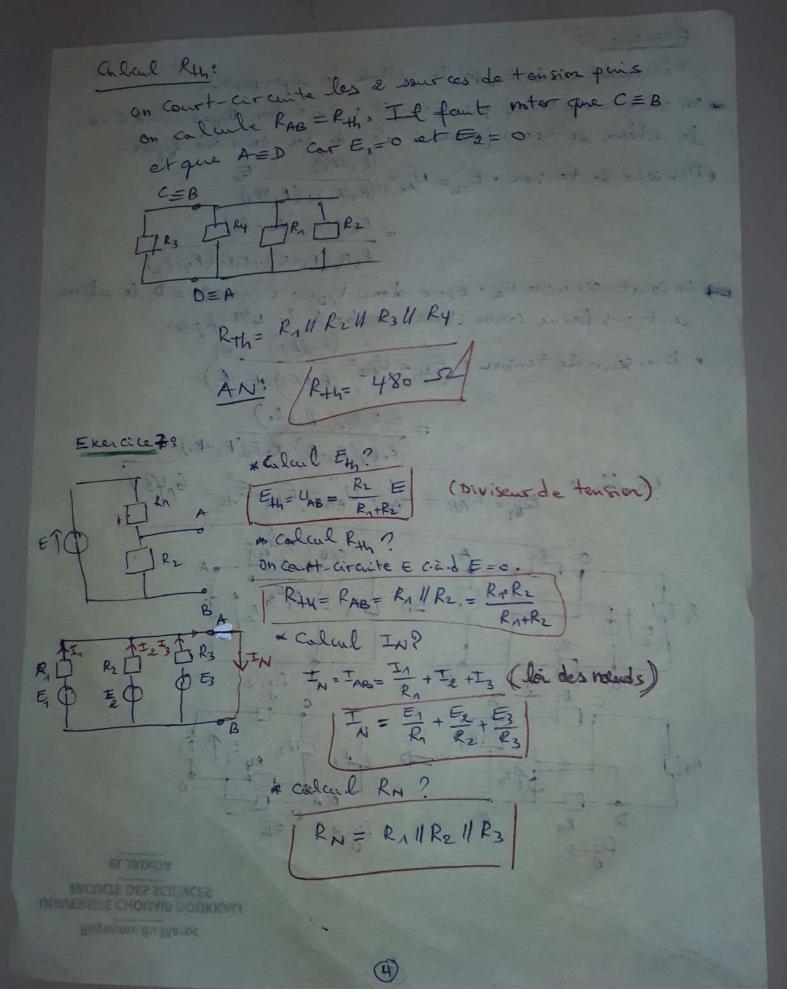
R3 étant toujours débranchée, on c-c E, la configuration

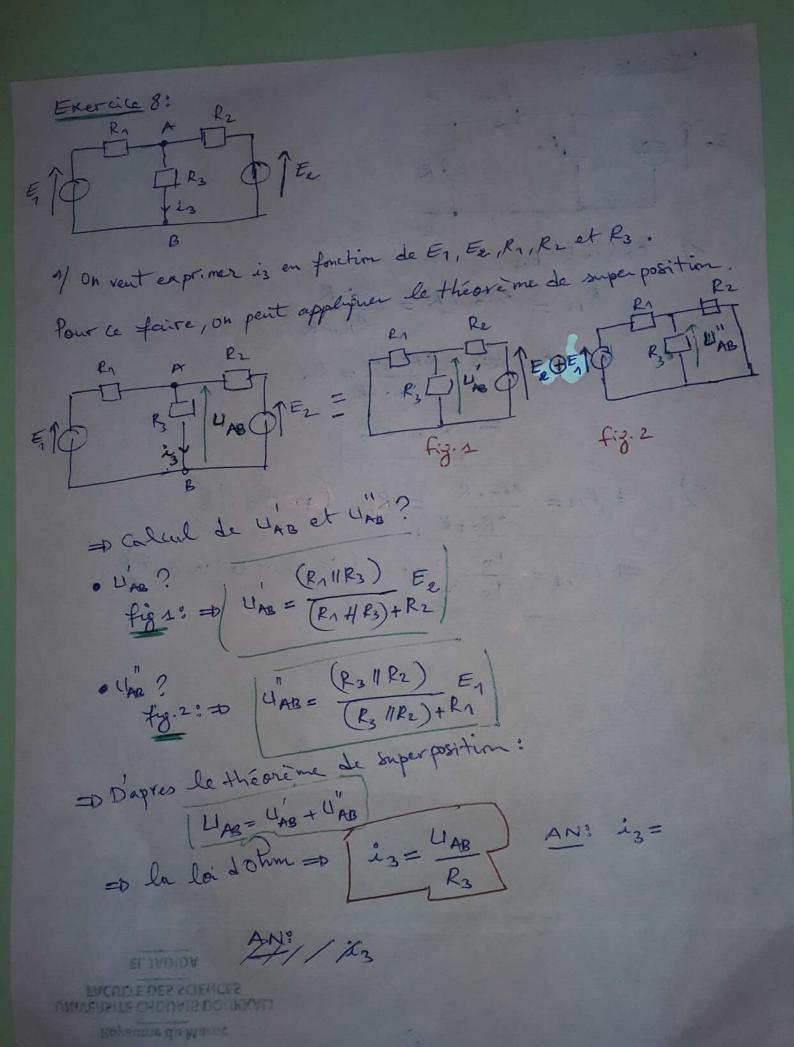
2

$$= \sqrt{I - \frac{R_N}{R_N + R_S}} = 0.5 A$$

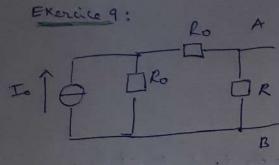


(3)





Exercice 9: INTO TRO Calcul RN? $R_N = 2R_0 IIR = \frac{2R_0 \cdot R}{2R_0 + R}$ =DIR = RRO 2) = RN = 2Ro.R (2Ro 11R) => [IN = Ro Io] (Diviseur de Courant)



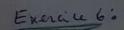
1) Calcul RN?
$$R_N = \frac{eR_0 / R}{eR_0 + R}$$

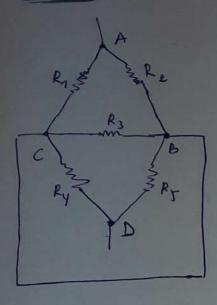
$$R_{N} = R_{0} \iff \frac{2R_{0} \cdot R}{2R_{0} + R} = R_{0}$$

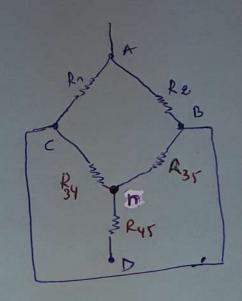
$$\Rightarrow R_{N} = R_{0}$$

2)
$$\Rightarrow |R_N = \frac{2R_0 \cdot R}{2R_0 + R}$$
 (Phrisent de Courant)
 $\Rightarrow |T_N = \frac{R_0}{R_0 + R_0}$ (Divisent de Courant)

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$$R_{34}$$
 R_{2}
 R_{35}
 R_{35}
 R_{35}

$$\begin{cases}
R_{34} = \frac{R_3 \cdot R_4}{R_3 + R_4 + R_5} \\
R_{47} = \frac{R_4 R_7}{R_3 + R_4 + R_7}
\end{cases}$$

$$R_{37} = \frac{R_3 \cdot R_7}{R_3 + R_4 + R_7}$$

Reg = RallRz