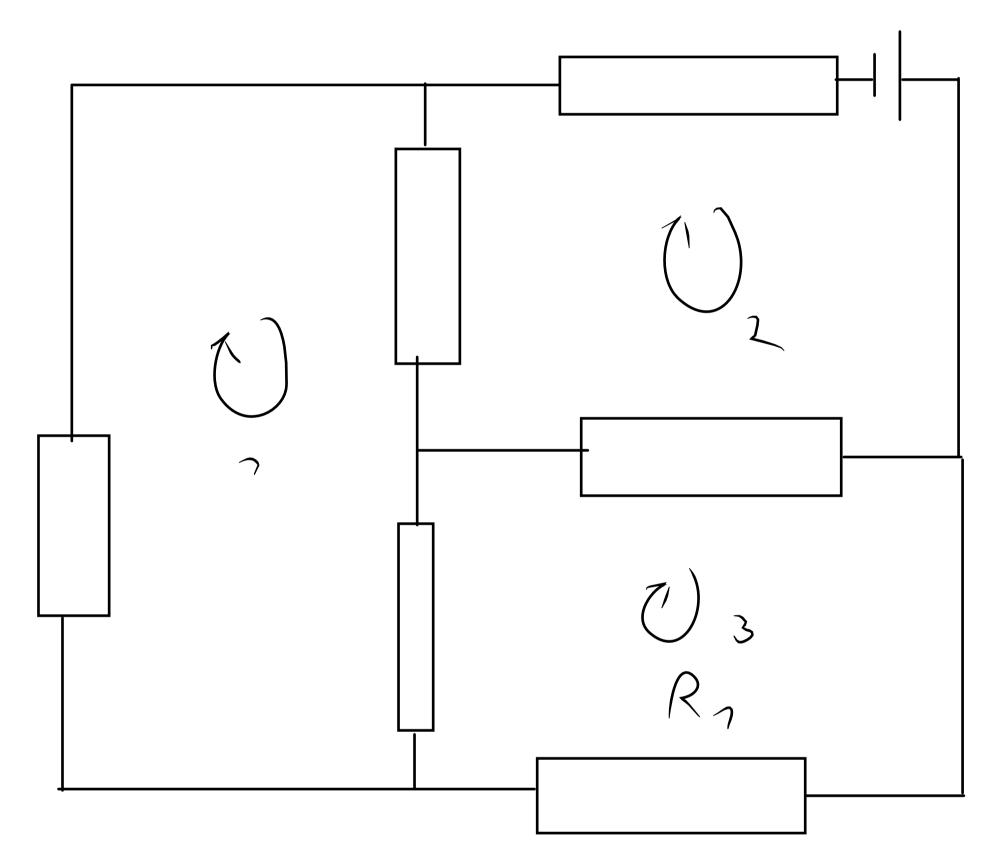


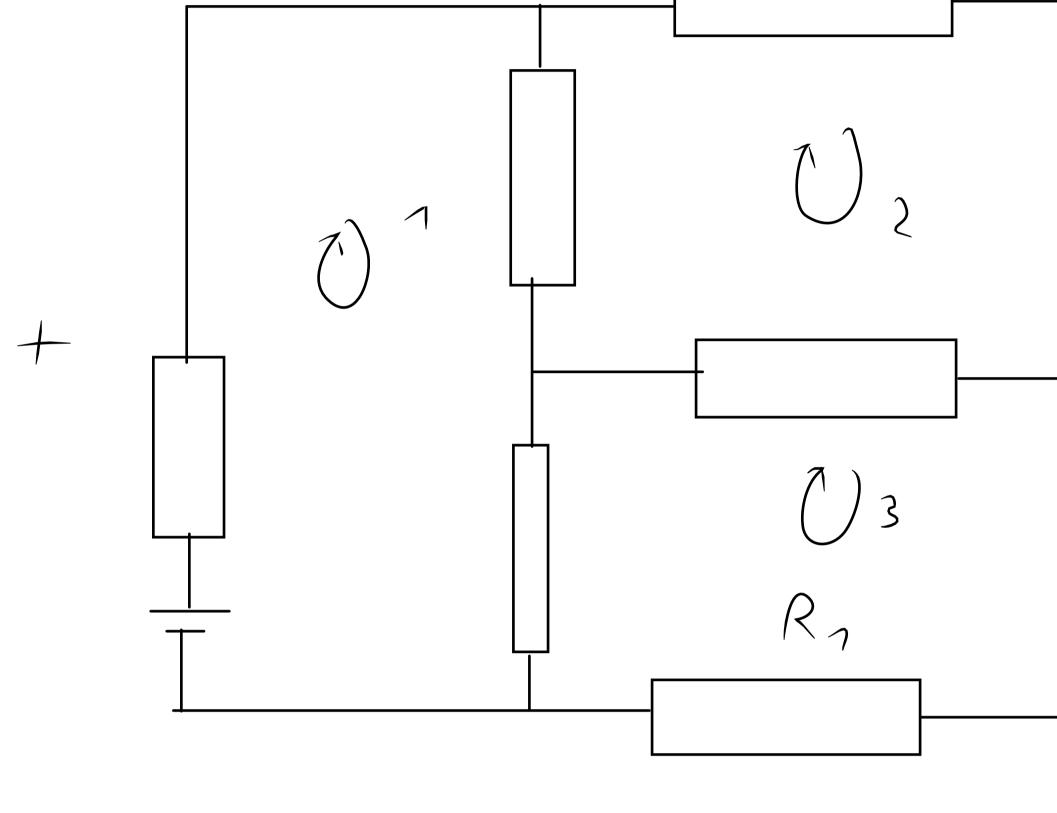
$$\begin{bmatrix} 3R - R - R \\ -R & 3R - R \end{bmatrix} \begin{bmatrix} I_{1} \\ I_{2} \\ -R & -R & 2R+R_{1} \end{bmatrix} \begin{bmatrix} I_{3} \\ I_{3} \end{bmatrix} = \begin{bmatrix} E \\ I_{3} \\ O \end{bmatrix}$$

$$\begin{bmatrix} I_{1} \\ I_{2} \\ I_{3} \end{bmatrix} = \frac{1}{8R^{3} + 8R^{2}R_{1}} \begin{bmatrix} SR^{2} + 3RR_{1} & 3R^{2}RR_{1} & 4R^{2} \\ 3R^{2} + RR_{1} & 5R^{2} + 3RR_{1} & 4R^{2} \\ 4R^{2} & 4R^{2} & 8R^{3} \end{bmatrix} \begin{bmatrix} E \\ E \\ O \end{bmatrix}$$

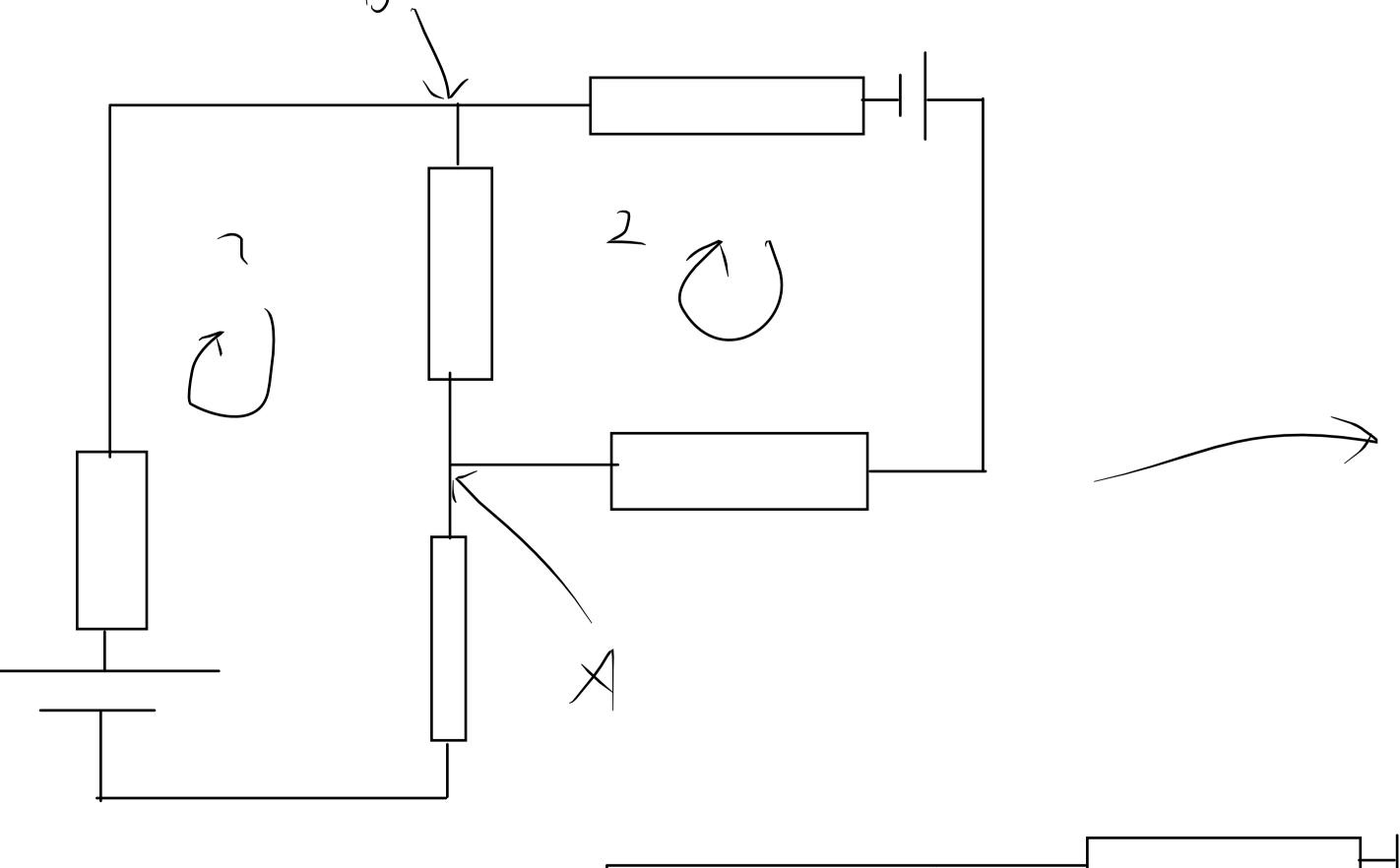
$$\frac{1}{3} = \frac{2 \cdot 4R^2 \cdot \xi}{8R^2 \left(R + R_1\right)} = \frac{\xi}{R + R_1}$$

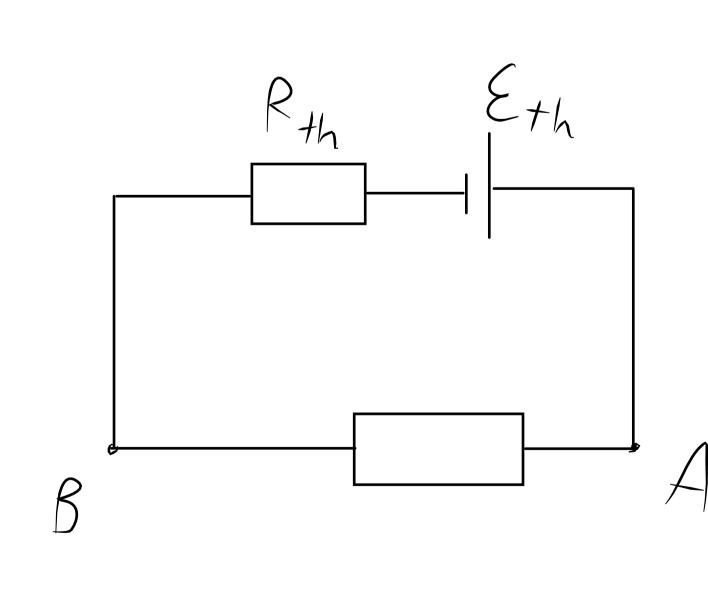


$$\begin{bmatrix} 3R - R - R \\ -R & 3R - R \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ -R & -R & 2R+R_1 \end{bmatrix} = \begin{bmatrix} E \\ 0 \\ I_3 \end{bmatrix}$$



$$\begin{bmatrix} 3R - R - R \\ -R & 3R - R \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ -R & -R & 2R+R_1 \end{bmatrix} \begin{bmatrix} I_3 \\ I_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$





$$R_{th} = \frac{1}{1} \cdot 4R$$

$$U_{AB} = 8$$

$$R_{+h} = \frac{2R \cdot 2R}{2R + 2R} = R$$

$$U_{AB} = \varepsilon_{th} = -IR + \varepsilon - IR$$

$$= E - 2IR = O(falt_{C2n})$$

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