

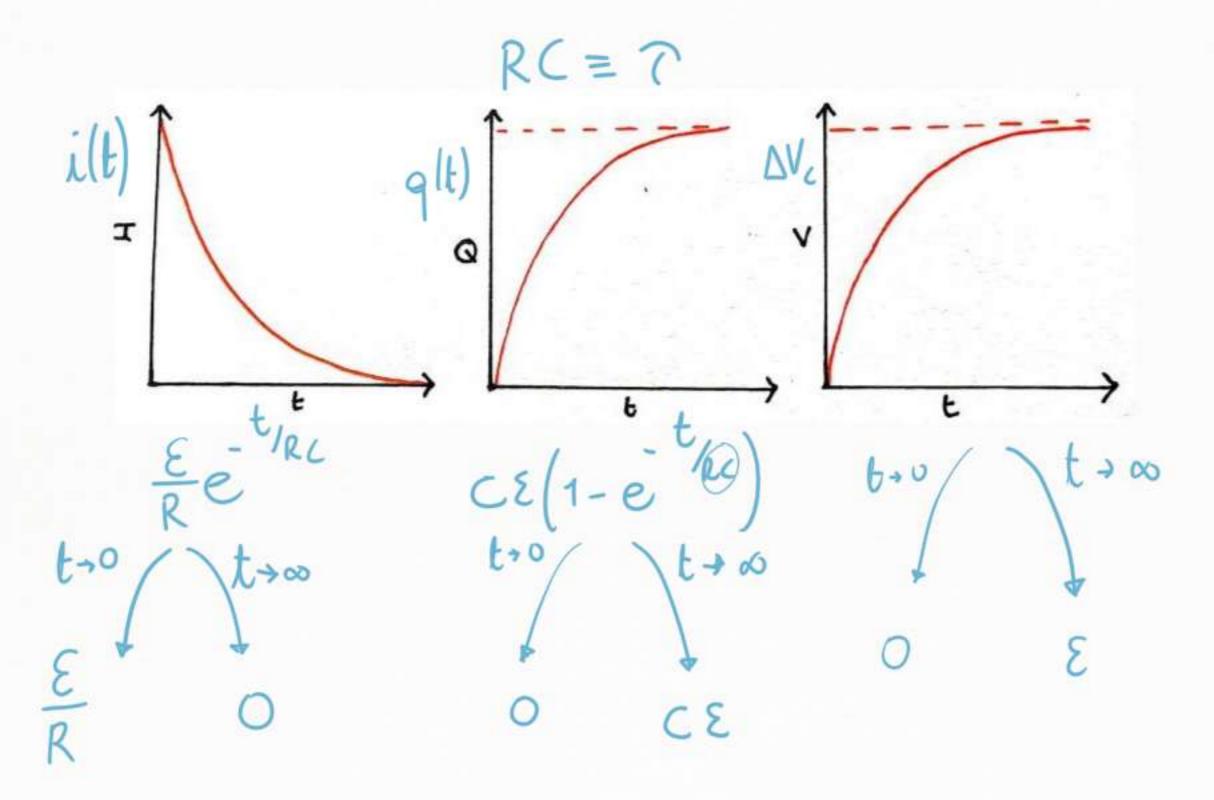
$$\frac{C}{E} = \frac{E}{C}, \quad \Delta V_{R} = Ri(t) = R \frac{dq}{dt} = N$$

$$\frac{R}{E} = \Delta V_{C} + \Delta V_{R} = \frac{q(t)}{C} + R \frac{dq}{dt} = N$$

$$\frac{dt}{RC} = \frac{dq}{CE-q} = N$$

$$\frac{dt'}{RC} = \frac{t}{RC} = \int_{CE-q'}^{q(t)} \frac{dq'}{CE-q'} = -\log\left(CE-q'\right) = -\log\left(\frac{CE-q}{CE}\right)$$

$$e^{-\frac{t}{2c}} = \underbrace{c\epsilon - qlt}_{c\epsilon} \Rightarrow q(t) = c\epsilon(1 - e^{-t/pc}) \Rightarrow q(t) = \epsilon(1 - e^{-t/pc}) \Rightarrow q(t) = \frac{t}{2c} = \frac{$$

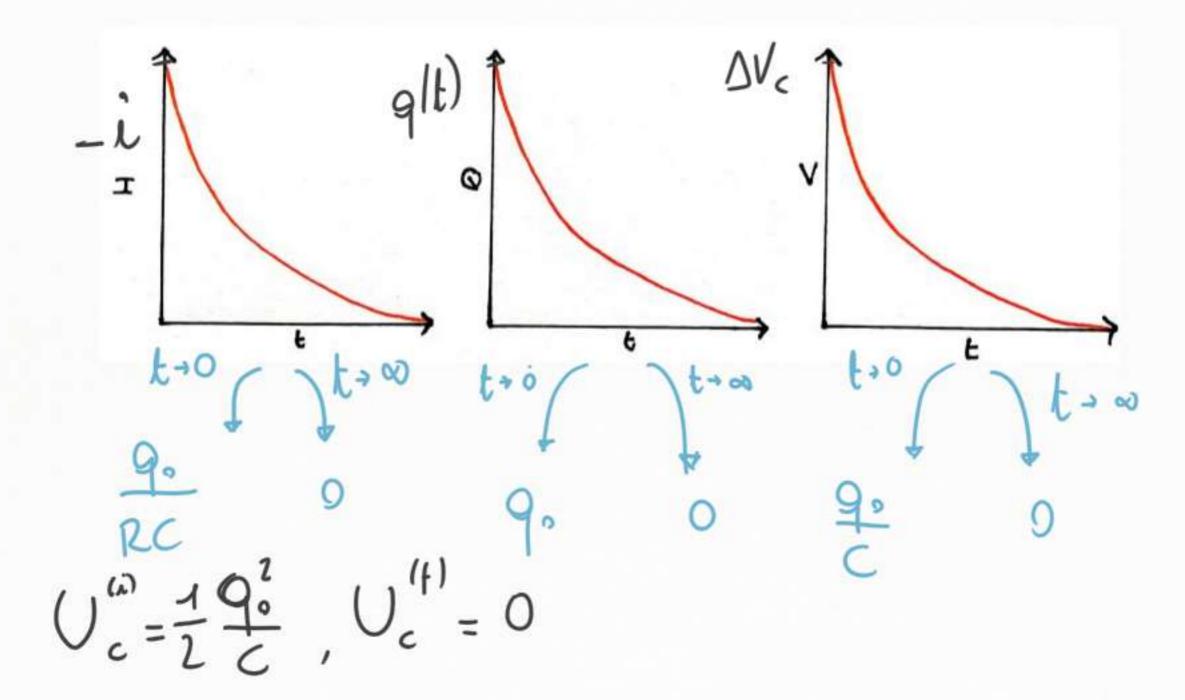


$$Qf = \mathcal{E}C = \lim_{t \to \infty} qt$$

$$W_G = \int_{0}^{\epsilon} \mathcal{E} dq = \mathcal{E} qf = \mathcal{E}^2C$$

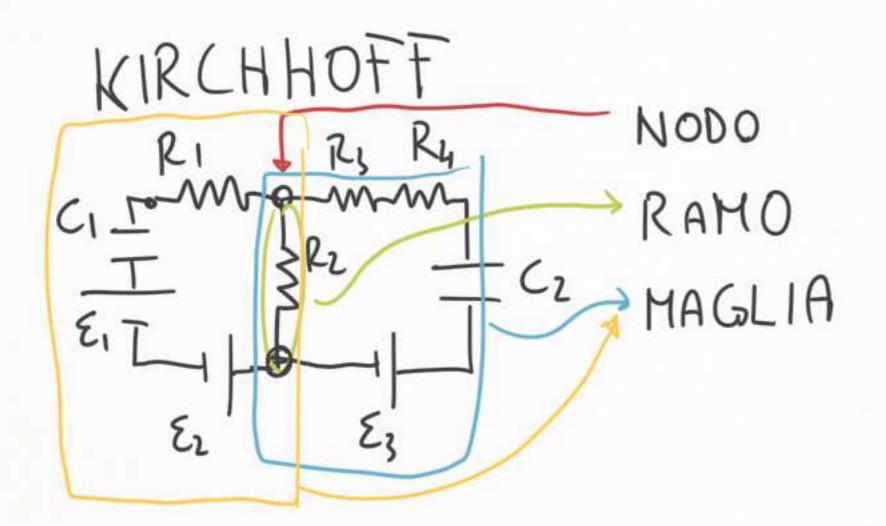
$$U_C'' = \frac{1}{2}q_1\mathcal{E} = \frac{1}{2}\mathcal{E}^2C$$

$$G_R = Ri^2, W = \int_{0}^{\epsilon} \mathcal{E}_R dt' = \frac{1}{2}\mathcal{E}^2C$$



$$\begin{aligned}
\left(\frac{\partial}{\partial x} | t \right) &= Ri^{2} = \frac{q^{2}}{Rc^{2}} e^{-\frac{2t}{Rc}} \\
\left(\frac{\partial}{\partial x} | t \right) &= Ri^{2} = \frac{q^{2}}{Rc^{2}} e^{-\frac{2t}{Rc}} dt \\
&= \int_{0}^{\infty} \frac{q^{2}}{Rc^{2}} e^{-\frac{2t}{Rc}} dt \\
&= \int_{0}^{\infty} \frac{q^{2}}{c} = U_{c}^{(i)} \\
\left(e^{-\frac{x}{2}} dx = -2e^{-\frac{x}{2}} e^{-\frac{x}{2}} \right) \\
&= \int_{0}^{\infty} \frac{q^{2}}{c} e^{-\frac{x}{2}} dx \\
&= -2e^{-\frac{x}{2}} dx = -2e^{-\frac{x}{2}}
\end{aligned}$$

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$$\sum_{k} \mathcal{E}^{k} = \sum_{k} \nabla \Lambda^{k}$$

$$E_{1} = 10 \Omega$$

$$R_{1}$$

$$R_{2}$$

$$R_{3}$$

$$E_{2}$$

$$Q_{3}$$

$$Q_{4}$$

$$Q_{5}$$

R3 = 401

$$\frac{E_{1} - L_{3}R_{3}}{R_{1}} | (L_{2}) = \frac{E_{2} - L_{3}R_{3}}{R_{2}} |_{E} \rangle$$

$$\frac{E_{1} - L_{3}R_{3}}{R_{1}} + \frac{E_{2} - L_{3}R_{3}}{R_{2}} = L_{3} |_{E} \rangle$$

$$\frac{E_{1}}{R_{1}} + \frac{E_{2}}{R_{2}} - L_{3} \left(\frac{R_{3}}{R_{1}} + \frac{R_{3}}{R_{2}}\right) = L_{3} |_{E} \rangle$$

$$\frac{E_{1}}{R_{1}} + \frac{E_{2}}{R_{2}} - L_{3} \left(\frac{R_{3}}{R_{1}} + \frac{R_{3}}{R_{2}}\right) = L_{3} |_{E} \rangle$$

$$\frac{E_{1} + E_{2}}{R_{1}} - L_{3} \left(\frac{R_{3}}{R_{1}} + \frac{R_{3}}{R_{2}}\right) = L_{3} |_{E} \rangle$$

$$\frac{E_{1} + E_{2}}{R_{1}} - L_{3} \left(\frac{R_{3}}{R_{1}} + \frac{R_{3}}{R_{2}}\right) = L_{3} |_{E} \rangle$$

$$\frac{E_{1} - L_{3}R_{3}}{R_{1}} + \frac{E_{2} - L_{3}R_{3}}{R_{2}} = L_{3} |_{E} \rangle$$

$$\frac{E_{1} - L_{3}R_{3}}{R_{1}} + \frac{E_{2} - L_{3}R_{3}}{R_{2}} = L_{3} |_{E} \rangle$$

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$$\frac{E_{1} - L_{3}R_{3}}{R_{2}} + \frac{E_{2} - L_{3}R_{3}}{R_{2}} =$$

