OHM
$$\Delta V = V_A - V_B = \int_{A}^{B} \cdot d\vec{5} = Ri$$

$$E + \frac{1}{R} = Ri = E FORZA ELETIROMOTRICE$$

$$[E] = V$$

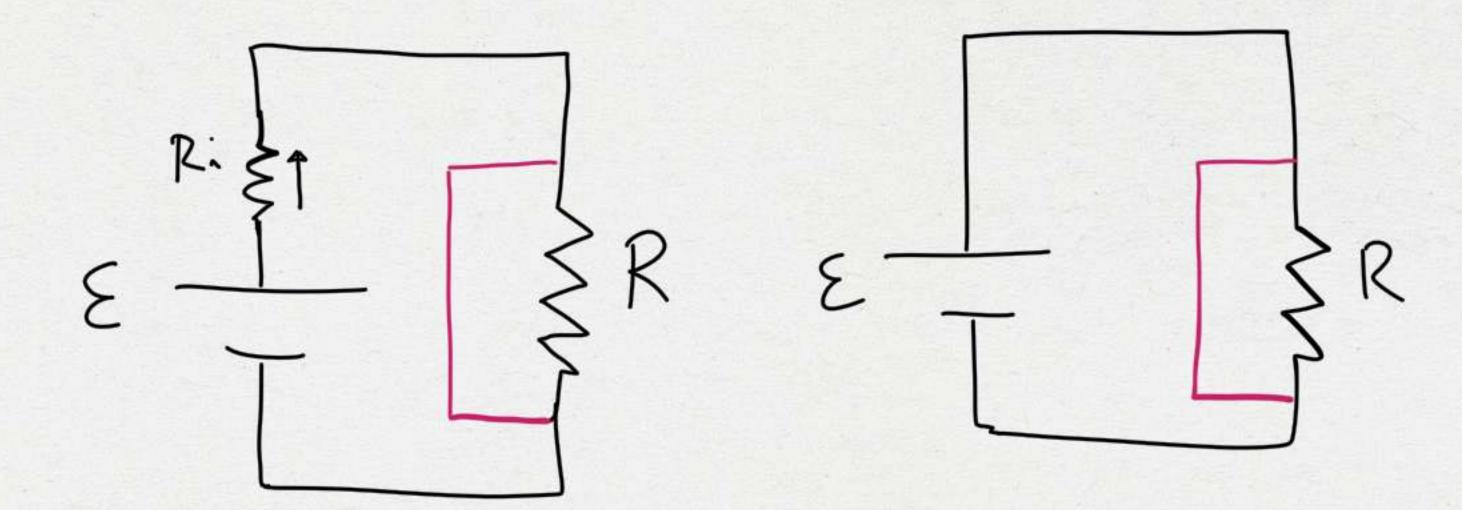
$$E$$

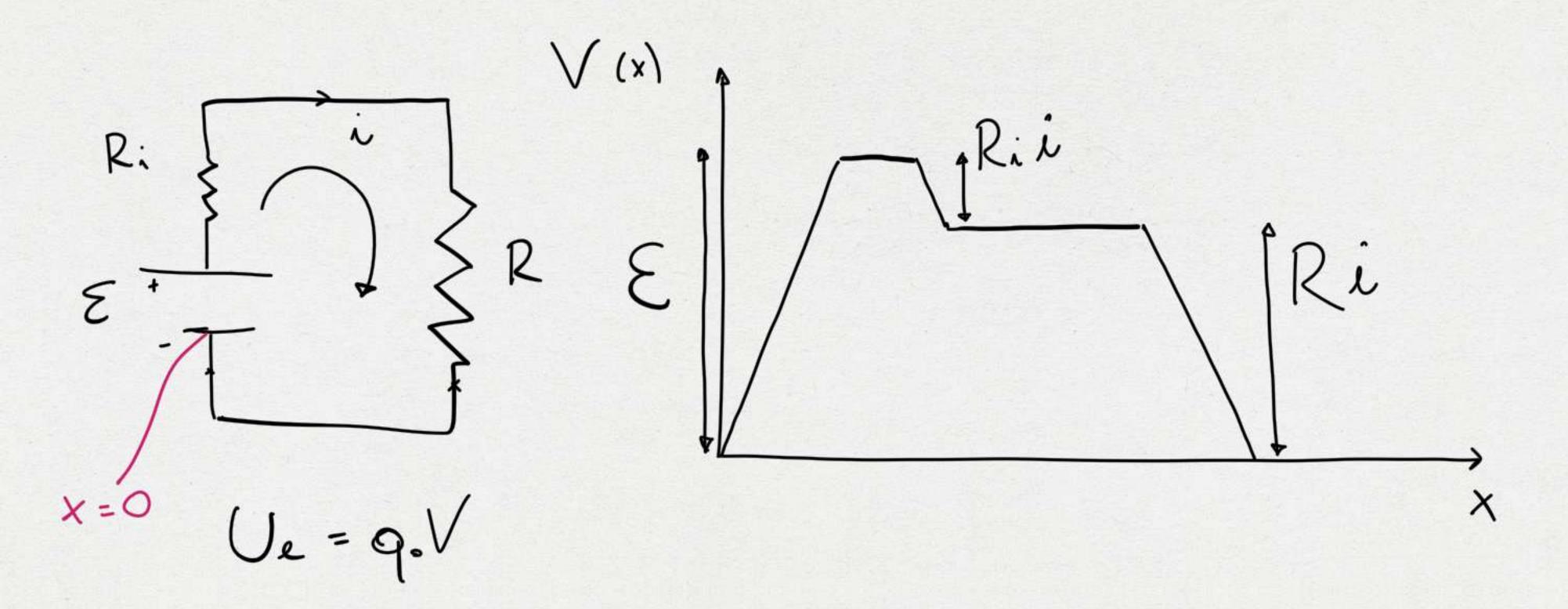
$$E$$

$$T$$

$$[\xi] = V$$

$$\xi = (R + Ri) i \Rightarrow i = \frac{\xi}{R + Ri} < \frac{\xi}{R}$$





$$E = Ri(t) + \Delta V_{e}(t) = Ri(t) + \frac{q(t)}{c} = Ri($$

$$e^{-\frac{t}{RC}} = \frac{C\epsilon \cdot q}{\epsilon \epsilon} \Rightarrow q(t) = C\epsilon \left(1 - e^{-\frac{t}{RC}}\right) \quad [RC] = 5$$

$$|E| \quad i(t) = \frac{dq}{dt} = \frac{C\epsilon}{RC} e^{-\frac{t}{RC}} = \frac{\epsilon}{R} e^{-\frac{t}{RC}}$$

$$|E| \quad i(t) = \frac{dq}{dt} = \frac{C\epsilon}{RC} e^{-\frac{t}{RC}} = \frac{\epsilon}{R} e^{-\frac{t}{RC}}$$

$$|E| \quad i(t) = \frac{dq}{dt} = \frac{C\epsilon}{RC} e^{-\frac{t}{RC}} = \frac{\epsilon}{R} e^{-\frac{t}{RC}}$$

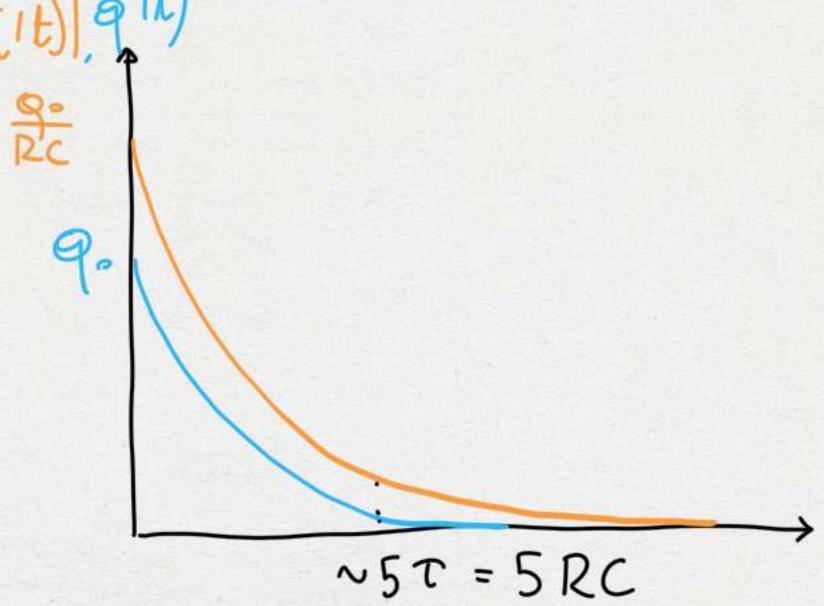
$$|E| \quad i(t) = \frac{dq}{dt} = \frac{C\epsilon}{RC} e^{-\frac{t}{RC}} = \frac{\epsilon}{R} e^{-\frac{t}{RC}}$$

$$|E| \quad i(t) = \frac{c\epsilon}{RC} e^{-\frac{t}{RC}} = \frac{\epsilon}{R} e^{-\frac{t}{RC}}$$

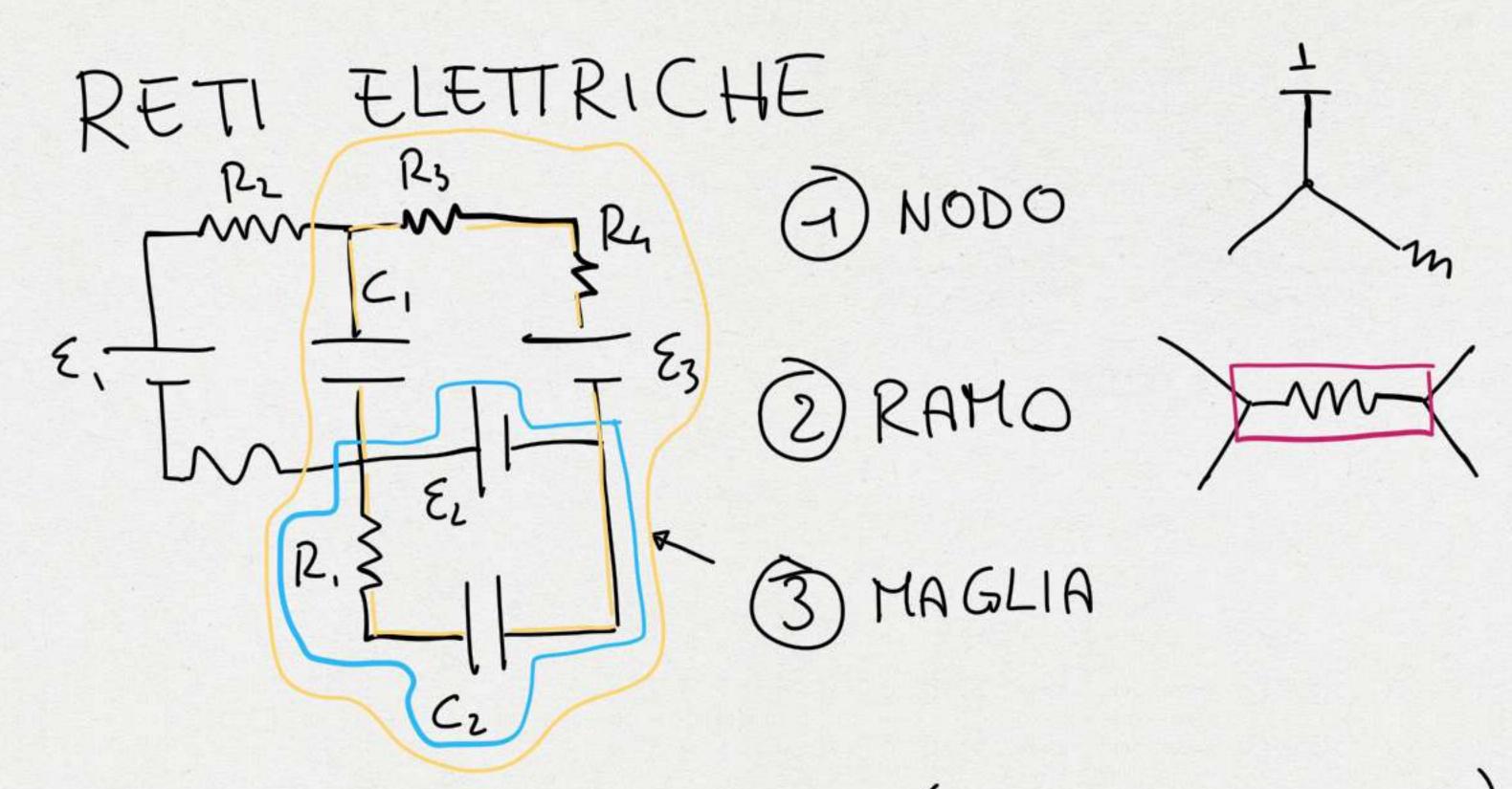
$$|E| \quad i(t) = \frac{c\epsilon}{RC} e^{-\frac{t}{RC}} = \frac{\epsilon}{R} e^{-\frac{t}{RC}}$$

$$\frac{R}{dt} = -\frac{9}{c} = -\frac{RC}{dt} = \frac{9}{dq} = -\frac{dt}{RC} = \frac{dq}{q} = -\frac{t}{RC} = \frac{q}{q} = -\frac{t}{RC} = -\frac{q}{q} = -\frac{t}{RC} = -\frac{q}{RC} = -\frac{q}{q} = -\frac{t}{RC} = -\frac{q}{q} = -\frac{q}{RC} = -\frac{q$$

$$Q(t) = 9.0 = \frac{t}{RC}$$



$$\begin{array}{lll}
\left(\int_{e}^{(\lambda)} = \frac{1}{2} \frac{Q^{2}}{C} & \left(\int_{e}^{(t)} dt \right) = 0 \\
C = R \lambda(t) = R \frac{2}{RC^{2}} e^{-\frac{2t}{T}} = 0 \\
V = \int_{0}^{\infty} (t) dt = \frac{Q^{2}}{RC^{2}} \int_{e}^{-\frac{2t}{T}} dt = -\frac{Q^{2}}{2RC^{2}} e^{-\frac{2t}{T}} \Big|_{0}^{\infty} = \frac{Q^{2}RC}{2RC^{2}} = \frac{1}{2} \frac{Q^{2}}{C}
\end{array}$$



I LEGGE DI KIRCHHOFF (LEGGE DEI NODI)

$$\sum_{k=1}^{N} i_{k} = 0$$

$$i_{1} + i_{2} - i_{3} - i_{4} = 0 - i_{1} - i_{2} + i_{3} + i_{4} = 0$$

I LEGGE DI KIRCHHOFF

$$E = Ri_{Ri}$$
 ε
 ε
 ε
 ε
 ε
 ε
 ε
 ε
 ε

$$\sum_{k=1}^{N_{RAM_1}} \mathcal{E}_{k} = \sum_{k=1}^{N_{RAM_1}} i_k R_k$$

(SIMILE A 5.10) ESEMPIO (1+12-13=0 F) 13=1,+12 (E, = R, i, + R3 i,3 E2 = R212+ R3 13 E,=10 V in = (-) 0.143 H E2 = 20V iz=0.429 A Nz = 0.286 A R = 10 SZ R2 = 20 S2 (R3 = 40-12