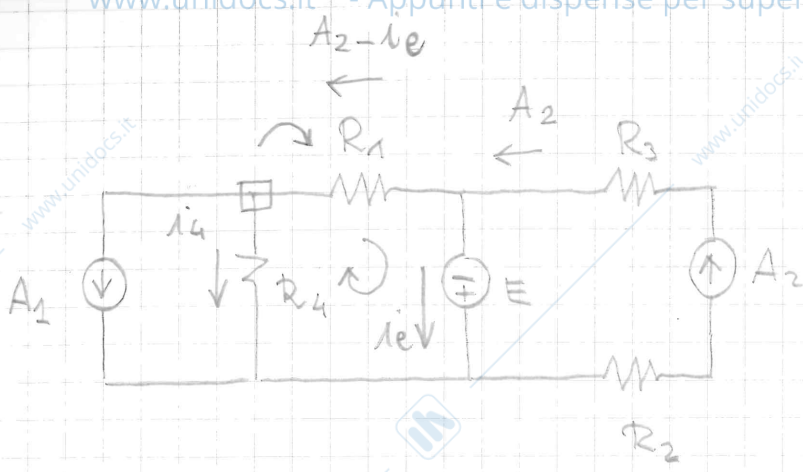


2)



$$P_e^E = i_e E$$

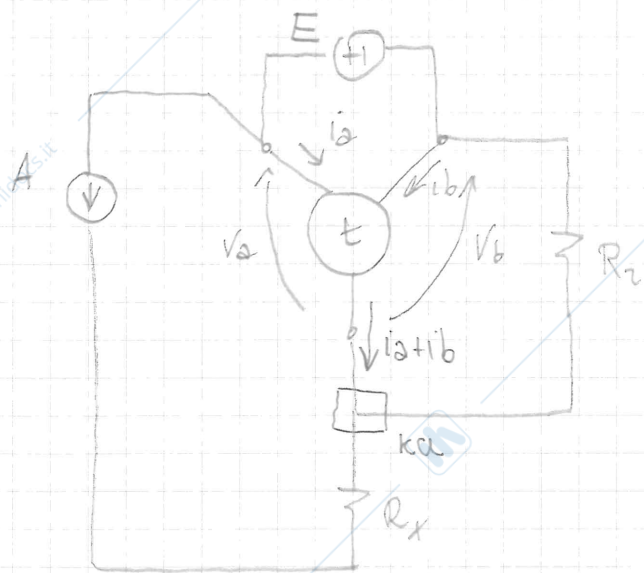
$$i_4 = A_2 - i_e - A_1$$

$$E + R_4(A_2 - i_e - A_1) + R_1(A_2 - i_e) = 0$$

$$i_e(R_1 + R_4) = E + R_4(A_2 - A_1) + R_1 A_2$$

$$i_e = \frac{E - R_4 A_1 + (R_4 + R_1) A_2}{(R_1 + R_4)}$$

3)



$$\left. \begin{aligned} i_a &= gV_a \\ V_b &= \tau i_a \end{aligned} \right\} \begin{aligned} \tau &\neq 0 \quad g \neq 0 \\ \tau g &\neq 1 \end{aligned}$$

ben per "t"

- $(V_a, V_b) \rightarrow i_a = gV_a \quad \text{no!}$
- $(i_a, i_b) \rightarrow V_a = i_a/g, V_b = \tau i_a \quad \text{ok}$
- $(V_a, i_b) \rightarrow i_a = gV_a \quad V_b = \tau g V_a \quad \text{ok}$
- $(i_a, V_b) \rightarrow i_a = \frac{V_b}{\tau} \quad \text{no!}$

