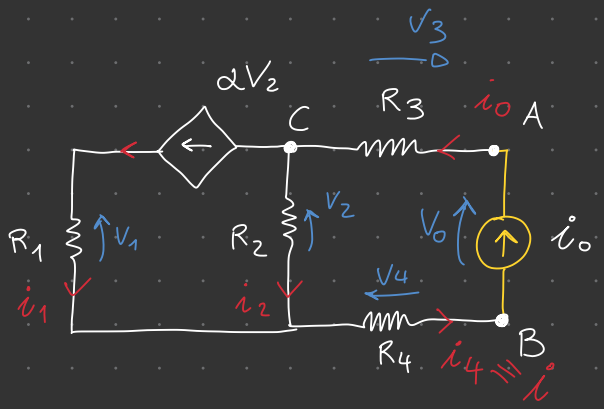

DATI

$R_1 = 20$ $\quad i_o = 1A$

$R_2 = 40$

$R_3 = 30$

$R_4 = 30$

$\alpha = 1.5\ S$

$Req = ?$

$$LKC_c: \begin{cases} -i_o + i_2 + i_1 = 0 \\ i_1 = \alpha V_2 \\ -V_2 - V_3 + V_o - V_4 = 0 \end{cases} \Rightarrow \begin{cases} 1.5V_2 + V_2 G_2 - 1 = 0 \\ i_1 = \alpha V_2 \\ V_o = R_3 i_o + R_4 i_4 + V_2 \end{cases}$$

$$V_2(1.5 + 0.025) = 1 \Rightarrow V_2 = \underline{0.66\ V} \quad V_2$$

$$\Rightarrow i_1 = 1.5 \cdot 0.66 = \underline{0.98\ A} \quad i_1$$

$$\Rightarrow V_o = 0.66 + 30 + 30 = \underline{60.66\ V}$$

Ans

$$\Rightarrow V_o = Req \cdot i_o \Rightarrow Req = \frac{V_o}{i_o} = \boxed{60.66\ \Omega}$$