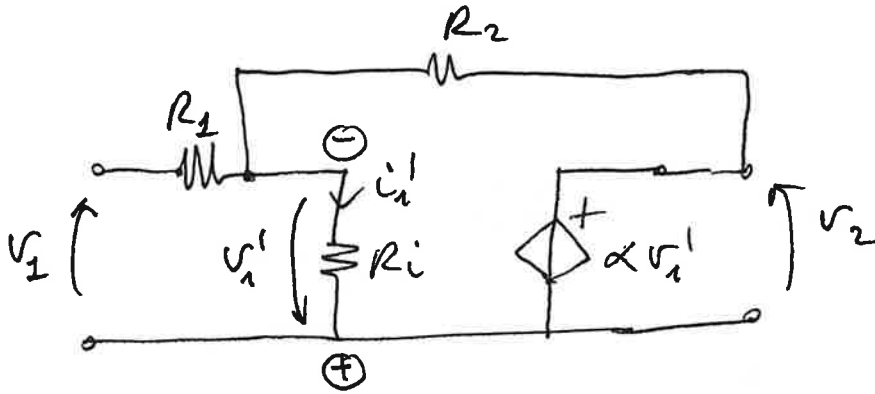


OP-AMP INVERTENTE STABILE



$$\frac{v_1 + v_1'}{R_1} = \frac{-v_1' - \alpha v_1'}{R_2} - \frac{v_1'}{R_1}$$

$$\frac{v_1}{R_1} = -v_1' \left(\frac{1+\alpha}{R_2} + \frac{1}{R_1} + \frac{1}{R_1} \right)$$

$$v_2 = \alpha v_1'$$

$$\frac{v_1}{R_1} = -\frac{v_2}{\alpha} \left(\frac{R_i R_2 + R_1 R_2 + R_2 R_i (1+\alpha)}{R_1 R_2 R_i} \right)$$

$$\frac{v_2}{v_1} = \frac{-R_2}{\frac{R_2}{\alpha} + \frac{R_1 R_2 + R_1 \left(1 + \frac{1}{\alpha}\right)}{\alpha R_i}}$$

→ 0 per $R_i \rightarrow \infty$ e $\alpha \rightarrow \infty$

$$\text{per } \alpha \rightarrow \infty : \frac{v_2}{v_1} = -\frac{R_2}{R_1}$$