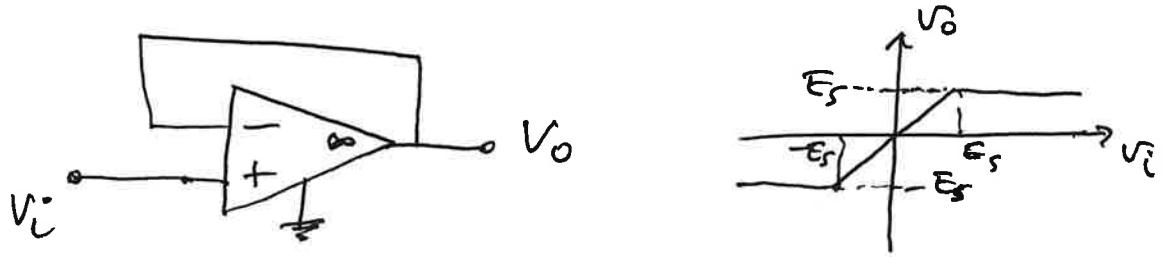
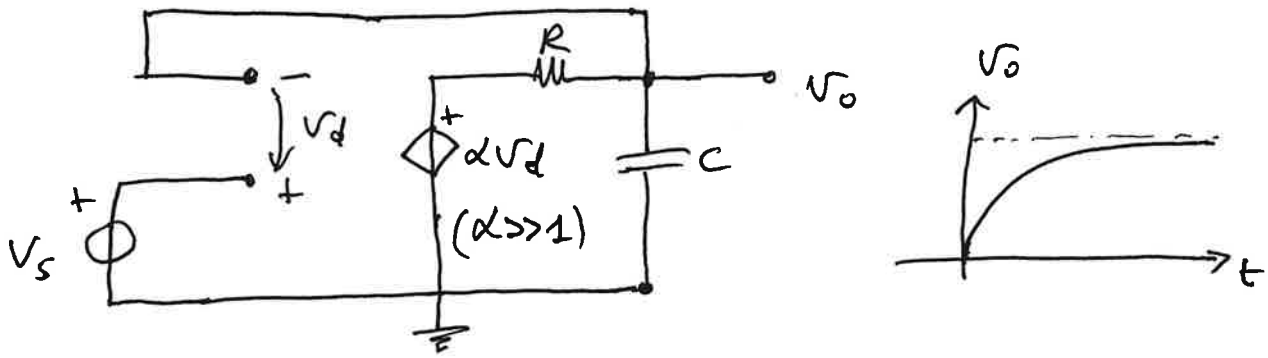
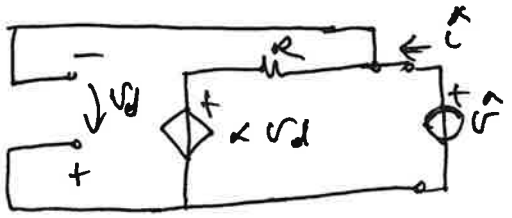
INSEGUITORE DI TENSIONE





EQUIVALENTE DI THEVENIN AI MORSETTI DI C:

$R_{eq} \rightarrow$



$$V_d = 0 - \hat{v} = -\hat{v}$$

$$\hat{v} = \alpha V_d + R\hat{i} = -\alpha\hat{v} + R\hat{i}$$

$$R_{eq} = \frac{\hat{v}}{\hat{i}} = \frac{R}{\alpha+1} \approx \frac{R}{\alpha}$$

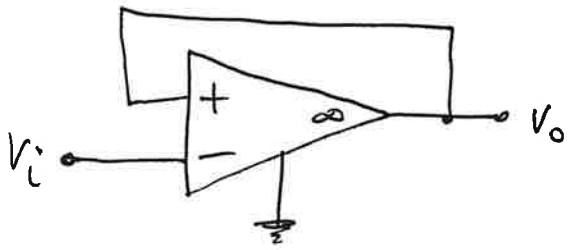
$V_{eq} \rightarrow$

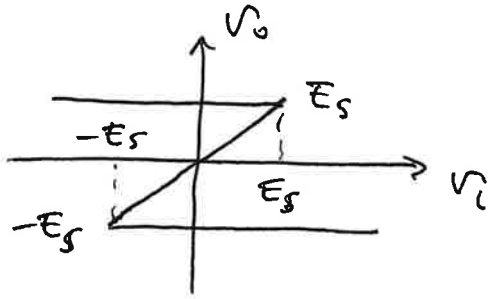
$$V_{eq} = \alpha V_d$$
$$V_d = V_s - \alpha V_d$$
$$\Rightarrow V_d(\alpha+1) = V_s$$

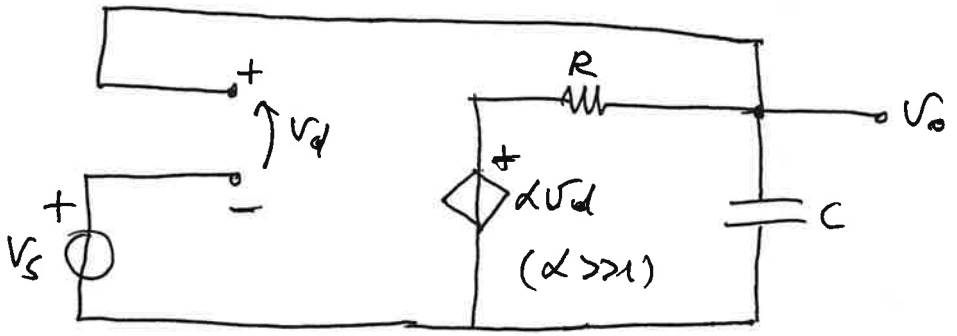
$$V_{eq} = \alpha V_d = \frac{\alpha}{\alpha+1} V_s \approx V_s$$

CIRCUITO STABILE

INSEGUITORE DI TENSIONE SBAGLIATO

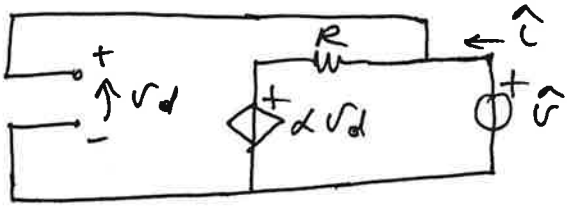






EQUIVALENTE DI THEVENIN AI MORSETTI DI C:

$R_{eq} \rightarrow$



$$V_d = \hat{v}$$

$$\hat{v} = \alpha V_d + R\hat{i} = \alpha\hat{v} + R\hat{i}$$

$$R_{eq} = \frac{\hat{v}}{\hat{i}} = \frac{R}{1-\alpha} \simeq -\frac{R}{\alpha} < 0$$

$V_{eq} \rightarrow$ $\quad V_{eq} = \alpha V_d$

$$V_d = \alpha V_d - V_s \quad \Longrightarrow \quad V_d(\alpha - 1) = V_s$$

$$V_{eq} = \alpha V_d = \frac{\alpha}{\alpha - 1} V_s$$

$$\simeq V_s$$

CIRCUITO INSTABILE