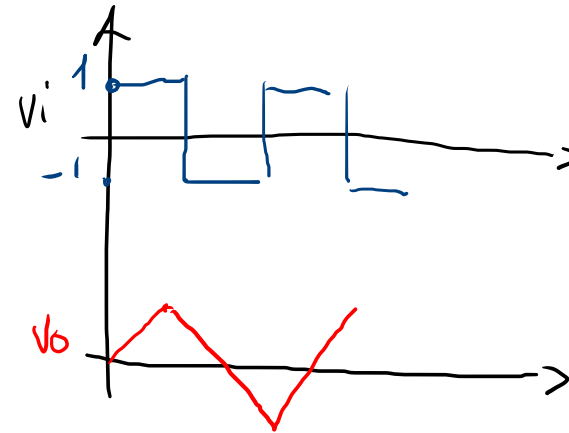
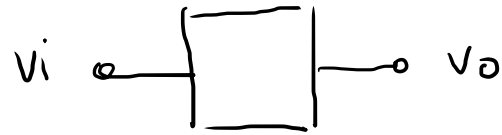
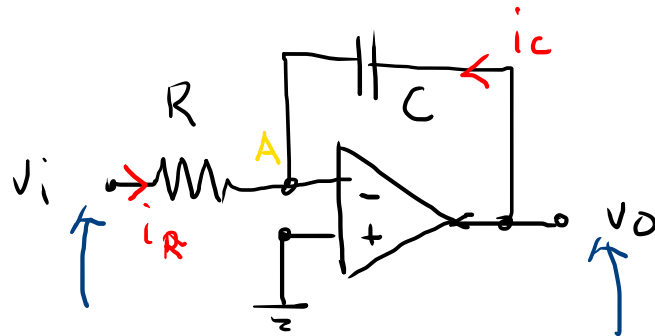


150. INTEGRATORE



$\triangle 45^\circ$



$$V^+ = V^-$$

$$i_R = \frac{V_i}{R}$$

$$i_C = C \cdot \frac{dV_o}{dt}$$

$$\frac{1}{RC} = \frac{1}{10^3 \cdot 1 \cdot 10^{-6}} = 1$$

1Hz 1μF

$$i_R + i_C = 0 \quad \rightarrow \quad i_R = -i_C$$

$$\frac{V_i}{R} = -C \frac{dV_o}{dt}$$

$$\frac{dV_o}{dt} = -\frac{1}{RC} \cdot V_i$$

$$V_o = -\underbrace{\frac{1}{RC}} \int_0^t V_i dt$$

