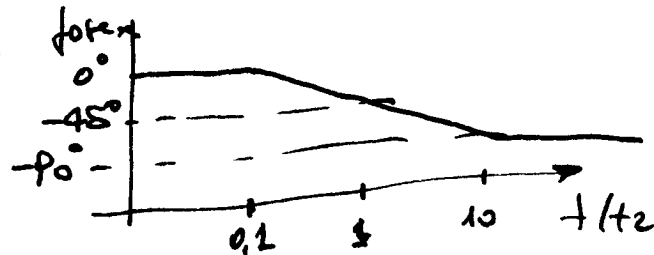
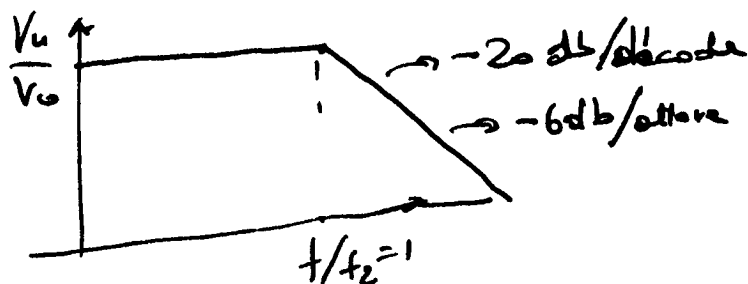


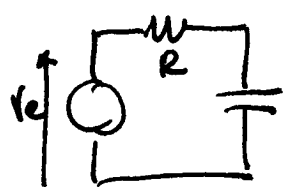
-6db/ottava per $f/f_2 = 2$

Anche detti diagrammi di Bode 8

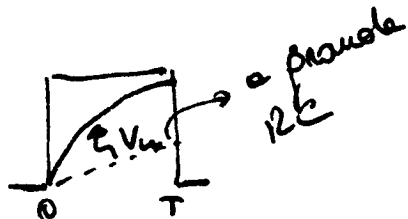
vedi filtro RC prop. 3 $\Rightarrow$ per $f < f_2$ $\phi = 0$
 per $f \gg f_2$ $\phi = -90^\circ$
 per $f = f_2$ $\phi = -45^\circ$



puoi poi nel dominio della frequenza.
 Ora dominio del tempo.



$$V_e = RC \frac{dV_u}{dt} + V_u$$



$$V_u = V_e \left(1 - e^{-\frac{t}{RC}} \right)$$

$$V_e = V_e e^{-\frac{t}{RC}}$$

$$i = \frac{V_e}{R} e^{-\frac{t}{RC}}$$

→ a grande RC la risposta è quasi rettilinea e se

$$V_e - V_u \sim V_e \Rightarrow V_e = RC \frac{dV_u}{dt} \Rightarrow V_u = \frac{1}{RC} \int_0^t V_e dt$$

$\Rightarrow$ integrazione

La tensione di uscita V_u integra la tensione di ingresso.