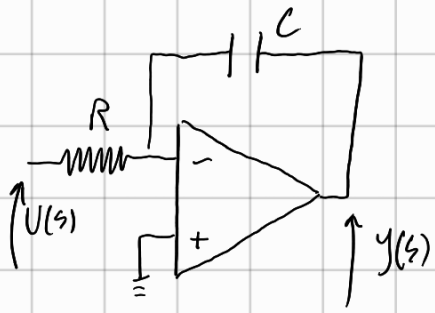
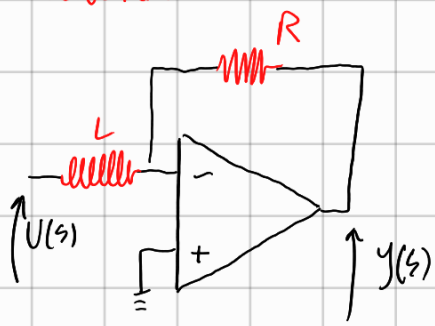
① INTEGRATORE



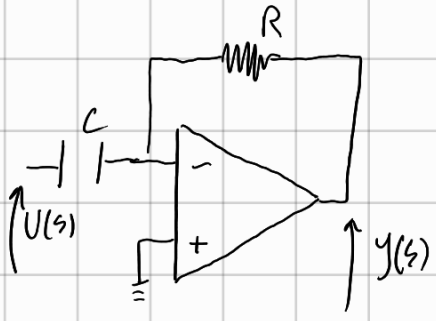
$$W(s) = -\frac{K}{s} \qquad K = \frac{1}{RC} = \frac{1}{T}$$

Alternativa



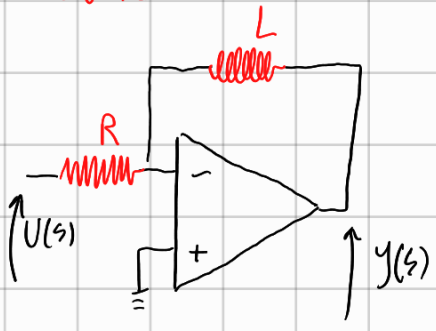
$$W(s) = -\frac{K}{s} \qquad K = \frac{R}{L} = \frac{1}{T}$$

② DERIVATORE



$$W(s) = -Ks \qquad K = RC = T$$

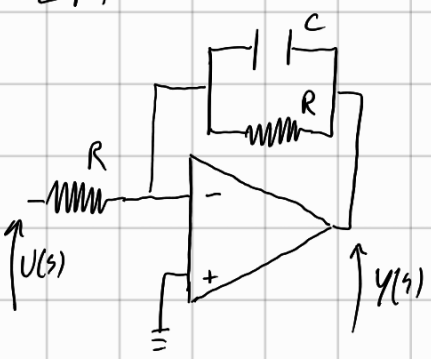
Alternativa



$$W(s) = -Ks \qquad K = \frac{L}{R} = T$$

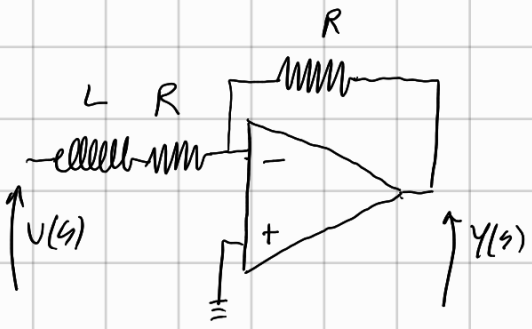
NOTA: $W(s)_{\text{REALE}} = -\dfrac{Ks}{1+s\gamma}$, con $\frac{1}{\gamma}$ un polo alla frequenza

③ LPF



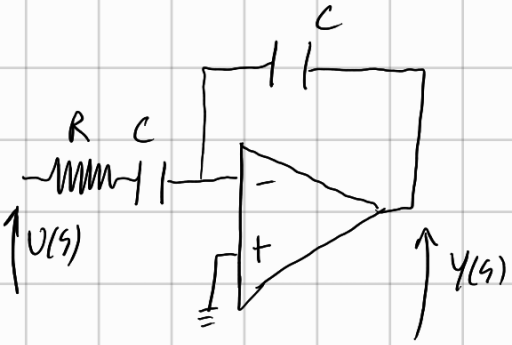
$$W(s) = -\frac{1}{1+s\tau} \qquad \tau = RC$$

Alternatywa



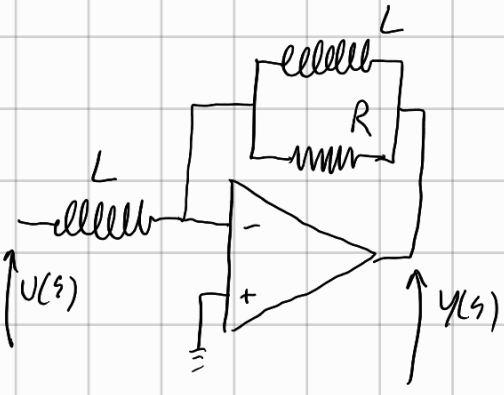
$$W(s) = -\frac{1}{1+s\tau} \qquad \tau = \frac{L}{R}$$

Alternatywa



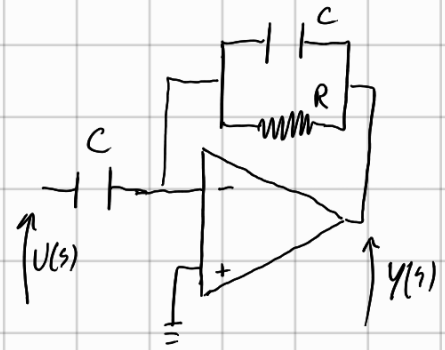
$$\tau = RC$$

Alternatywa



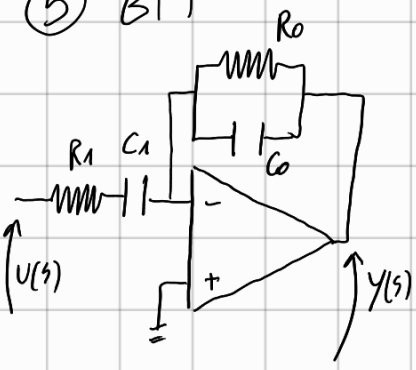
$$\tau = \frac{L}{R}$$

④ HPF



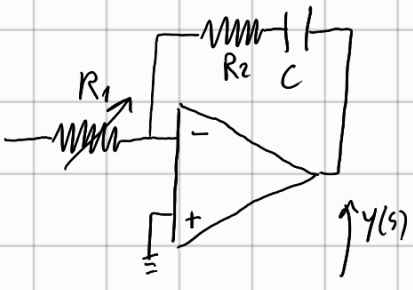
$$W(s) = -\frac{s\tau}{1+s\tau}, \qquad \tau = RC$$

⑤ BPF



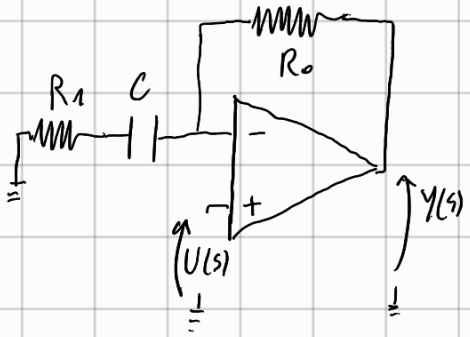
$$W(s) = \frac{-sR_0C_1}{(1+sR_0C_0)(1+sR_1C_1)}$$

⑥ PI con gain variable



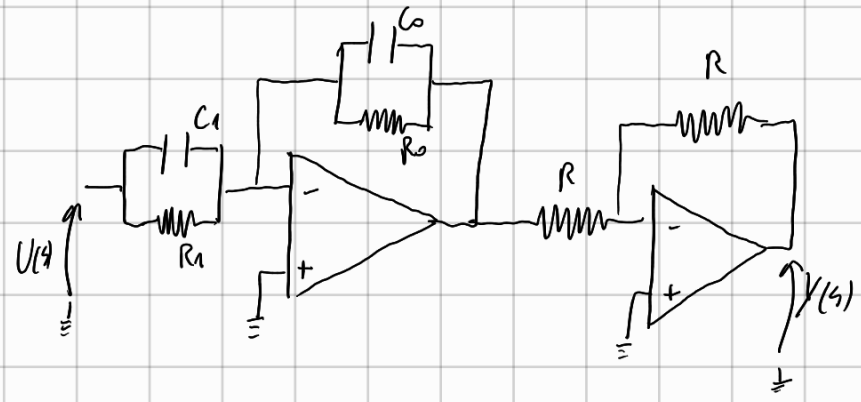
$$W(s) = -\frac{R_2}{R_1}\left(1+\frac{1}{sCR_2}\right) \qquad K_p = \frac{R_2}{R_1} \qquad T_i = R_2C$$

⑦ RETE ANTICIPATRICE MONCA



$$W(s) = \frac{1 + (R_0 + R_1)Cs}{1 + R_1 Cs}$$

⑧ RETE ANT/RIT



$$W(s) = -\frac{R_0}{R_1}\frac{(1 + sR_1C_1)}{(1 + sR_0C_0)}$$