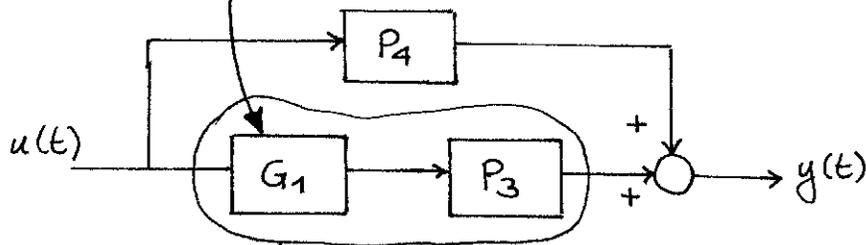
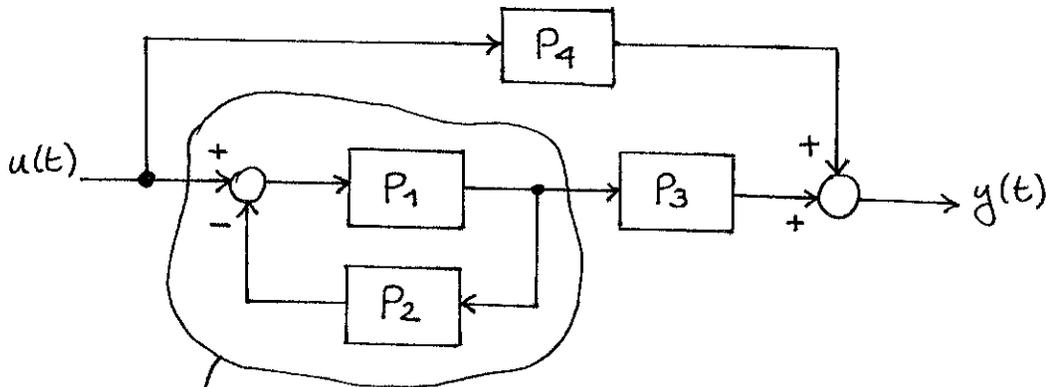
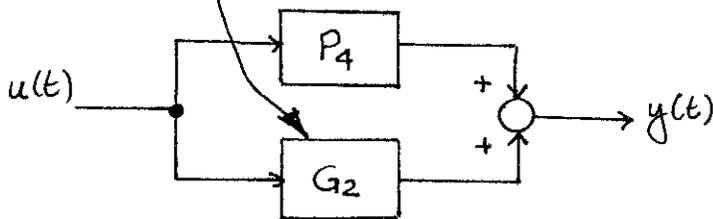


# Esercizio sui diagrammi a blocchi

Calcolare la funzione di trasferimento da  $u(t)$  a  $y(t)$ , dato lo schema:



$$G_1 = \frac{P_1}{1 + P_1 P_2} \quad (\text{retroazione negativa})$$



$$G_2 = P_3 G_1 \quad (\text{cascata})$$

Dunque:

$$P = P_4 + G_2 = P_4 + P_3 G_1 = P_4 + \frac{P_3 P_1}{1 + P_1 P_2}$$

↑  
funzione di trasferimento  
da  $u(t)$  a  $y(t)$