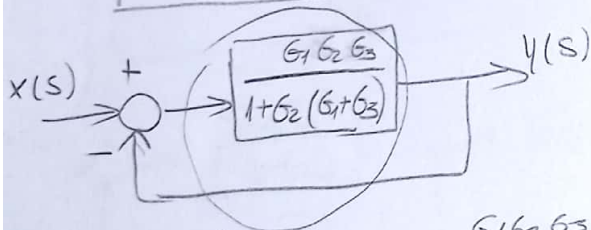
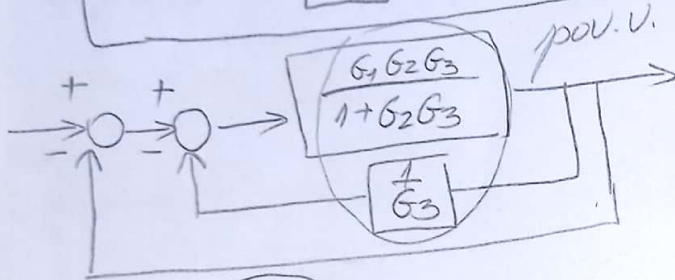
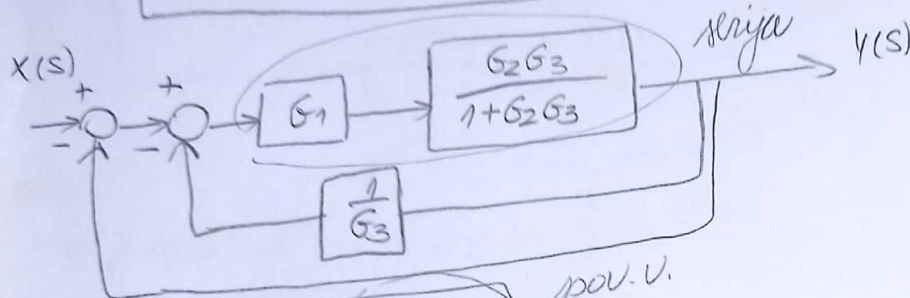
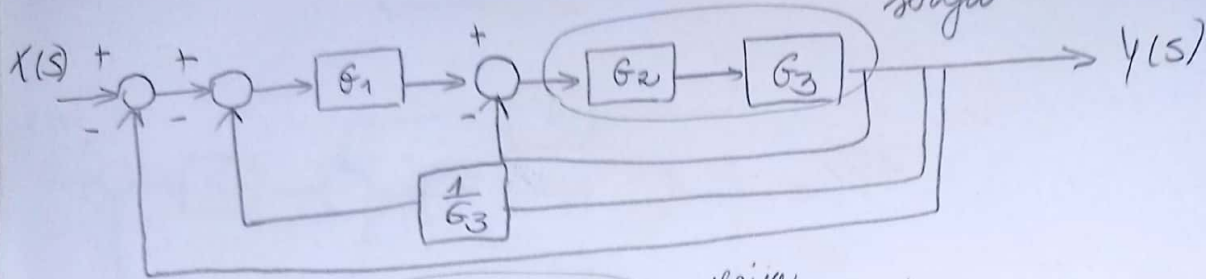
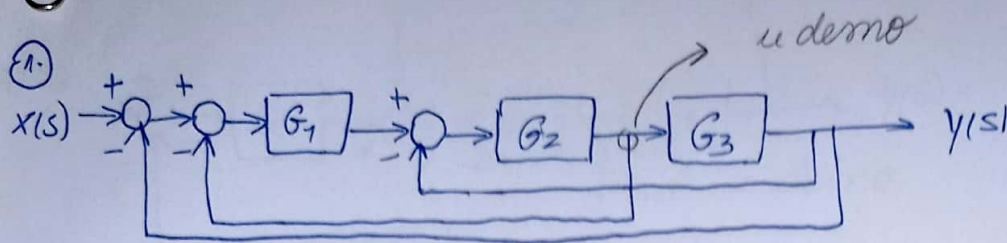
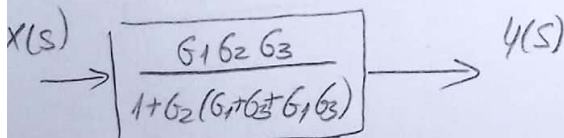


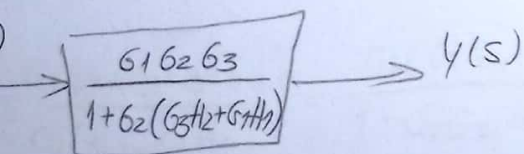
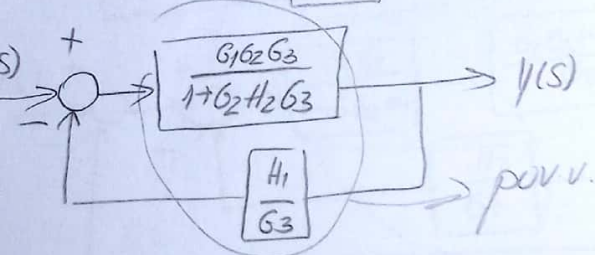
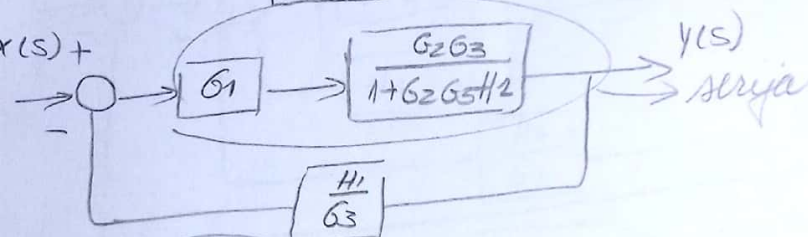
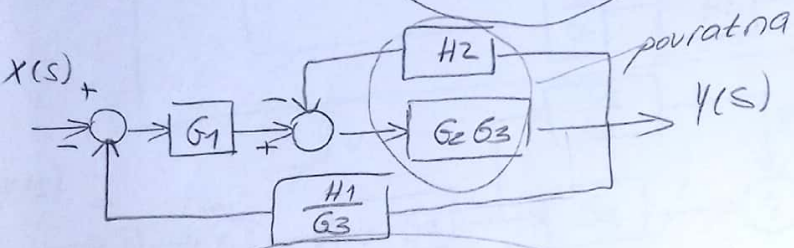
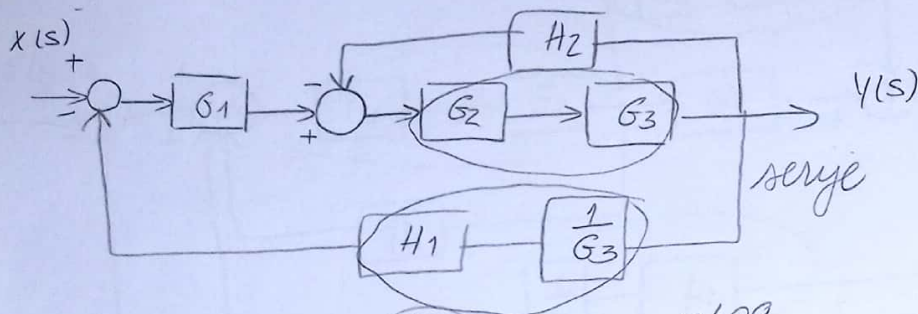
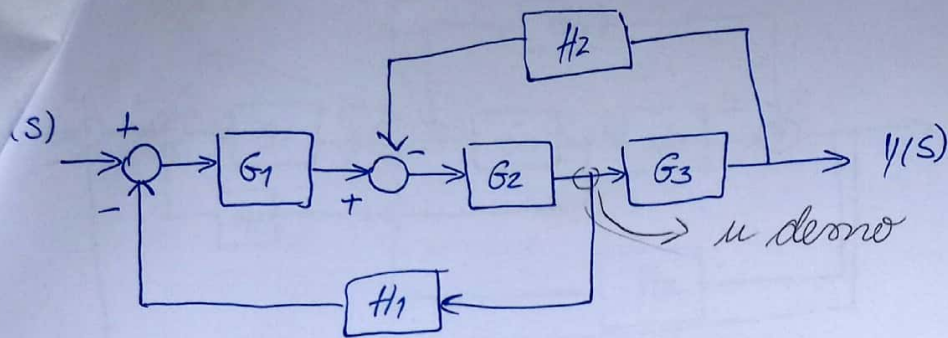
ALGEBRA BLOKOVA



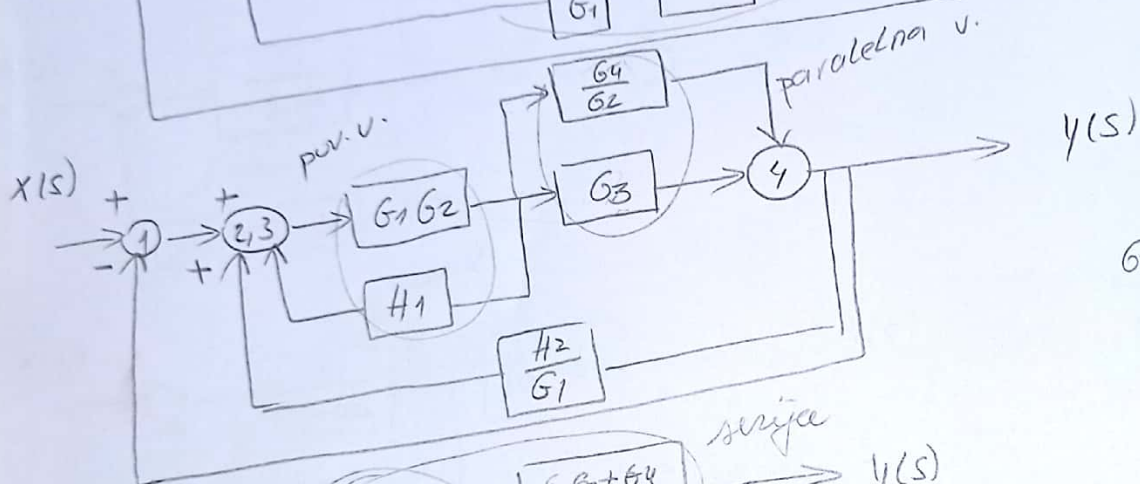
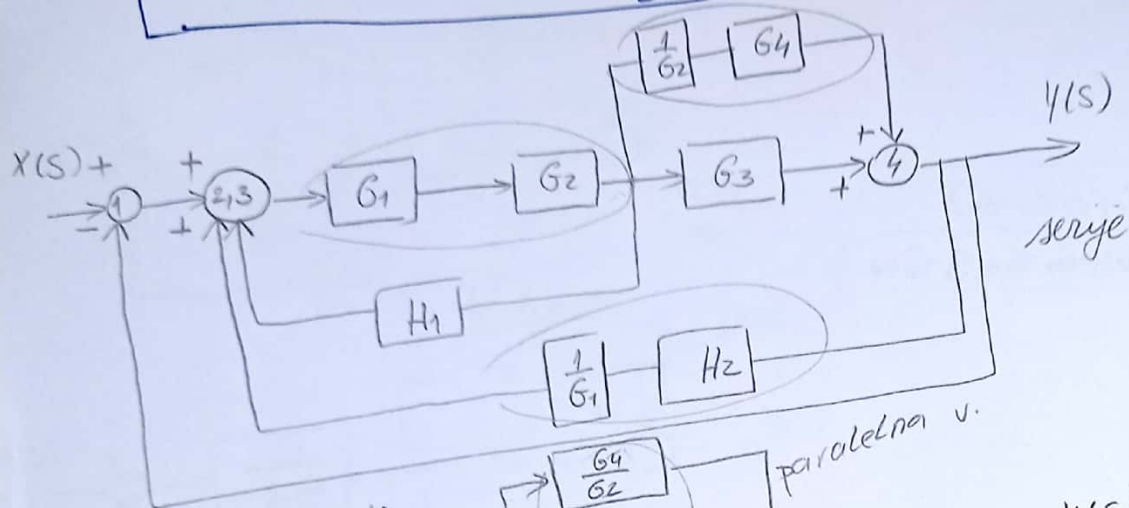
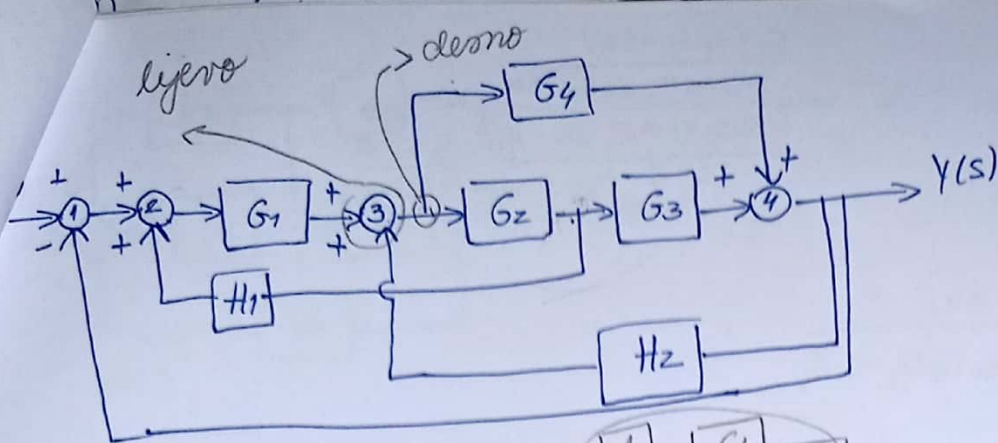
$$= \frac{\frac{G_1 G_2 G_3}{1+G_2(G_1+G_3)}}{1 + \frac{G_1 G_2 G_3}{1+G_2(G_1+G_3)}} = \frac{\frac{G_1 G_2 G_3}{1+G_2(G_1+G_3)}}{\frac{1+G_2(G_1+G_3)+G_1 G_2 G_3}{1+G_2(G_1+G_3)}} = \frac{G_1 G_2 G_3}{1+G_2(G_1+G_3+G_1 G_2 G_3)}$$



$$\frac{\frac{G_1 G_2 G_3}{1+G_2 G_3}}{1 + \frac{G_1 G_2 G_3}{1+G_2 G_3} \cdot \frac{1}{G_3}} = \frac{\frac{G_1 G_2 G_3}{1+G_2 G_3}}{\frac{1+G_2 G_3+G_1 G_2}{1+G_2 G_3}} = \frac{G_1 G_2 G_3}{1+G_2(G_1+G_3)}$$

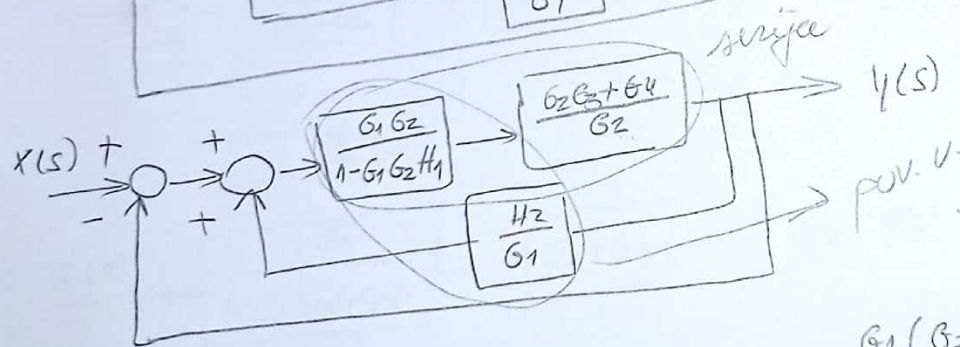


$$\frac{G_1 G_2 G_3}{1 + G_2 G_3 H_2} = \frac{G_1 G_2 G_3}{1 + G_2 G_3 H_2 + G_1 G_2 H_1} = \frac{G_1 G_2 G_3}{1 + G_2 (G_3 H_2 + G_1 H_1)}$$



$$G_3 + \frac{G_4}{G_2}$$

$$\frac{G_2 G_3 + G_4}{G_2}$$



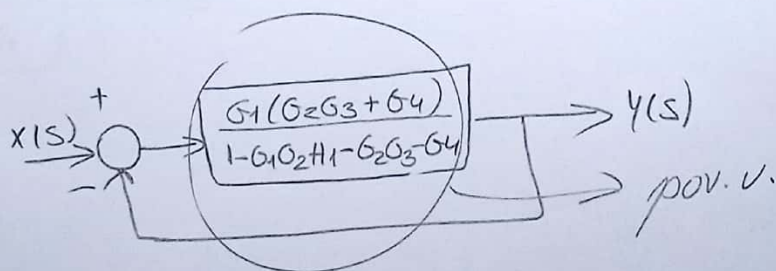
$$= \frac{G_1 G_2 (G_2 G_3 + G_4)}{G_2 (1 - G_1 G_2 H_1)}$$

$$= \frac{G_1 (G_2 G_3 + G_4)}{1 - G_1 G_2 H_1}$$

POV. $\frac{G_1 (G_2 G_3 + G_4)}{1 - G_1 G_2 H_1} = \frac{G_1 (G_2 G_3 + G_4)}{1 - G_1 G_2 H_1} \cdot \frac{H_2}{G_1}$

$$= \frac{G_1 (G_2 G_3 + G_4)}{1 - G_1 G_2 H_1 - (G_2 G_3 + G_4)} \cdot \frac{H_2}{G_1}$$

$$= \frac{G_1 (G_2 G_3 + G_4)}{1 - G_1 G_2 H_1 - G_2 G_3 - G_4}$$



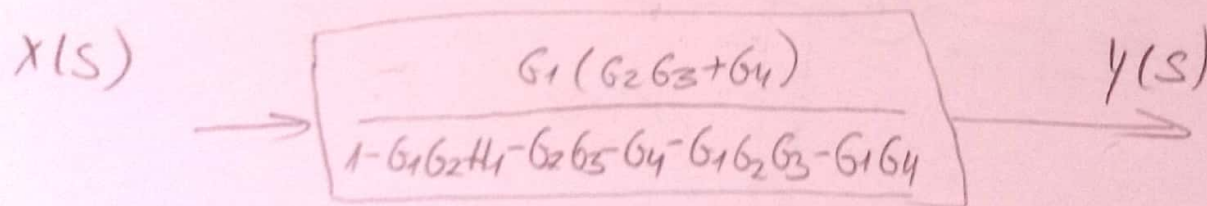
$$= \frac{G_1(G_2G_3 + G_4)}{1 - G_2G_1H_1 - G_2G_3 - G_4}$$

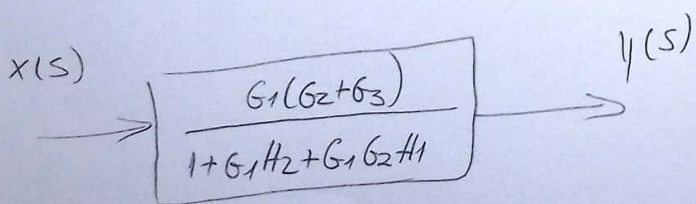
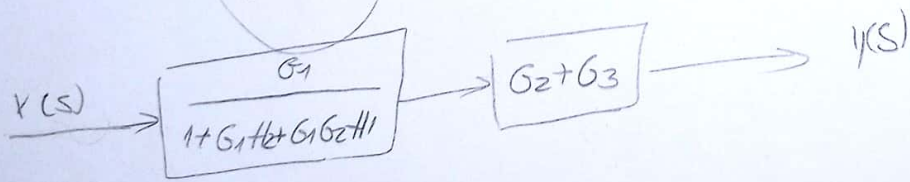
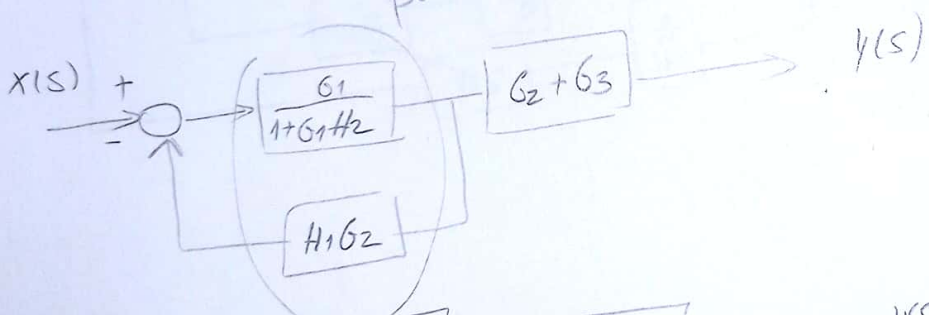
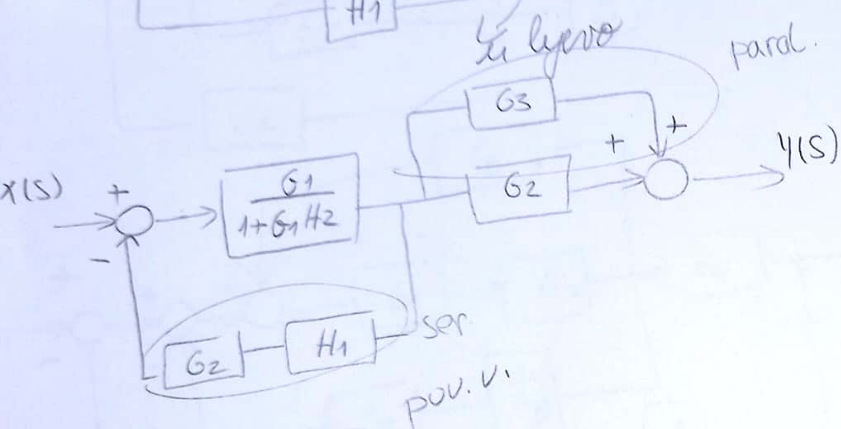
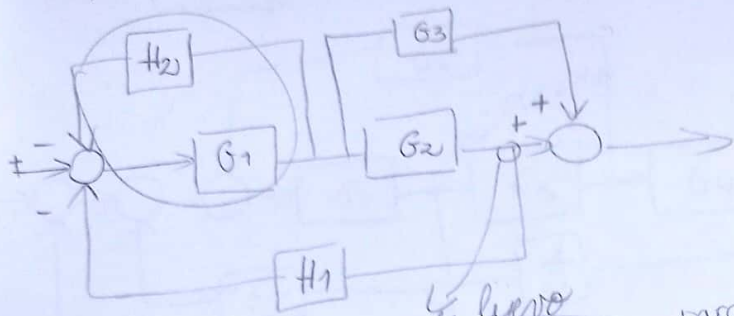
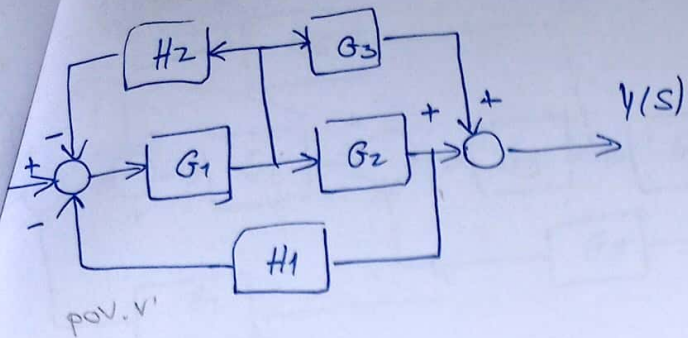
$$1 - \frac{G_1(G_2G_3 + G_4)}{1 - G_2G_1H_1 - G_2G_3 - G_4}$$

$$= \frac{G_1(G_2G_3 + G_4)}{1 - G_1G_2H_1 - G_2G_3 - G_4}$$

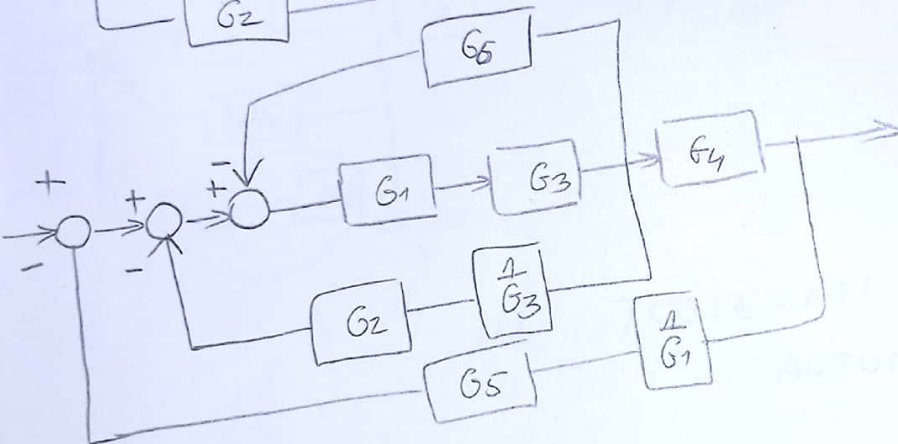
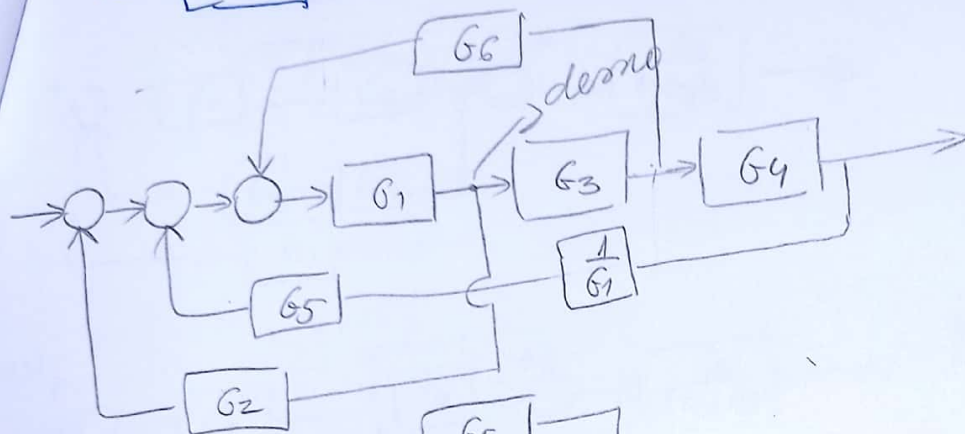
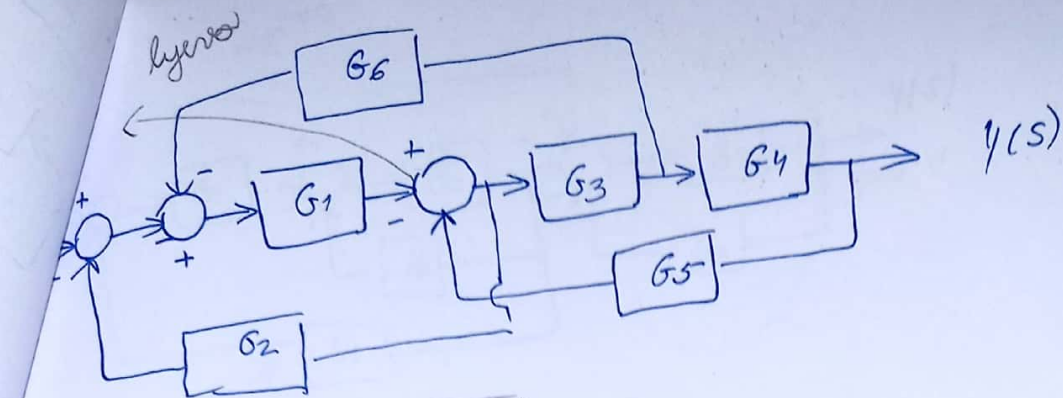
$$\frac{1 - G_1G_2H_1 - G_2G_3 - G_4 - G_1G_2G_3 - G_1G_4}{1 - G_1G_2H_1 - G_2G_3 - G_4}$$

$$= \frac{G_1(G_2G_3 + G_4)}{1 - G_1G_2H_1 - G_2G_3 - G_4 - G_1G_2G_3 - G_1G_4}$$

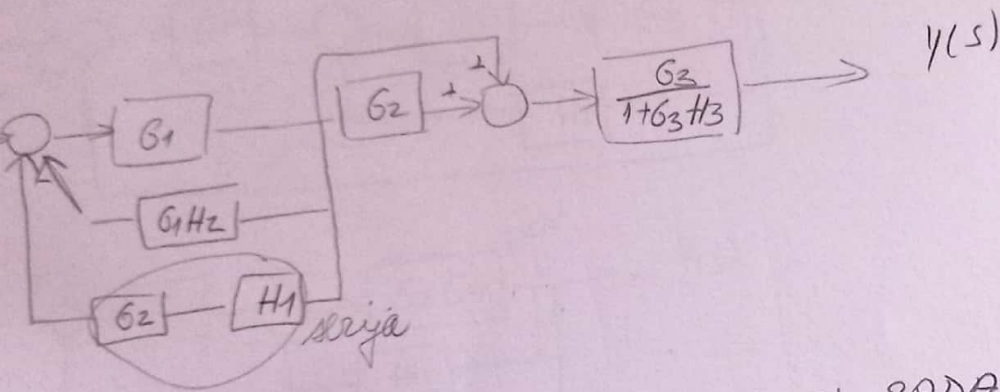
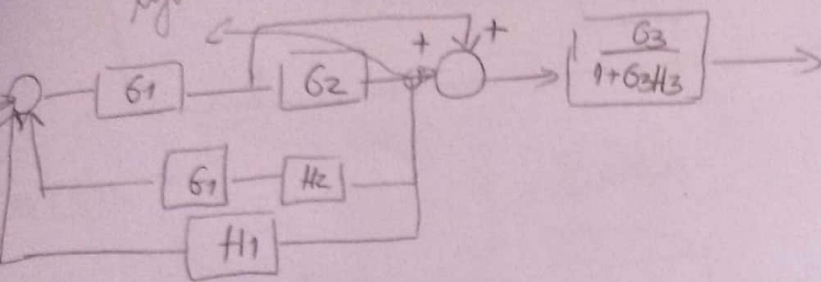
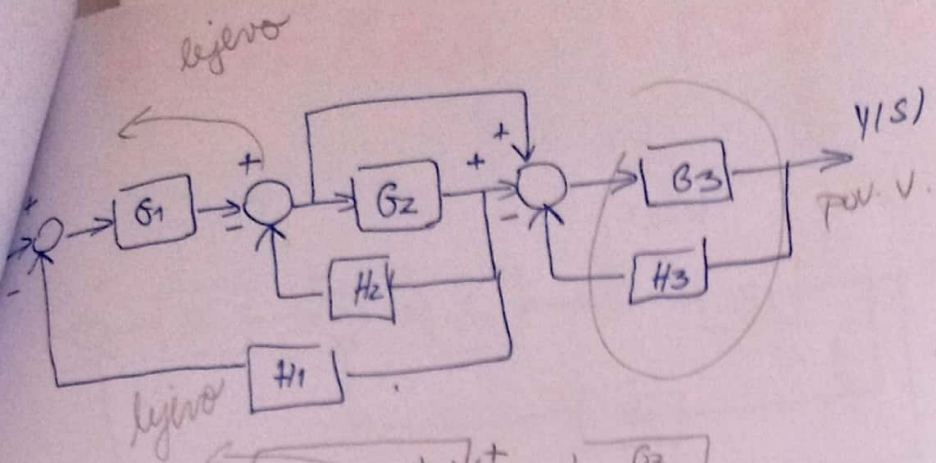




$$\frac{\frac{G_1}{1+G_1H_2}}{1 + \frac{G_1}{1+G_1H_2} \cdot H_1G_2} = \frac{\frac{G_1}{1+G_1H_2}}{\frac{1+G_1H_2+G_1G_2H_1}{1+G_1H_2}} = \frac{G_1}{1+G_1H_2+G_1G_2H_1}$$

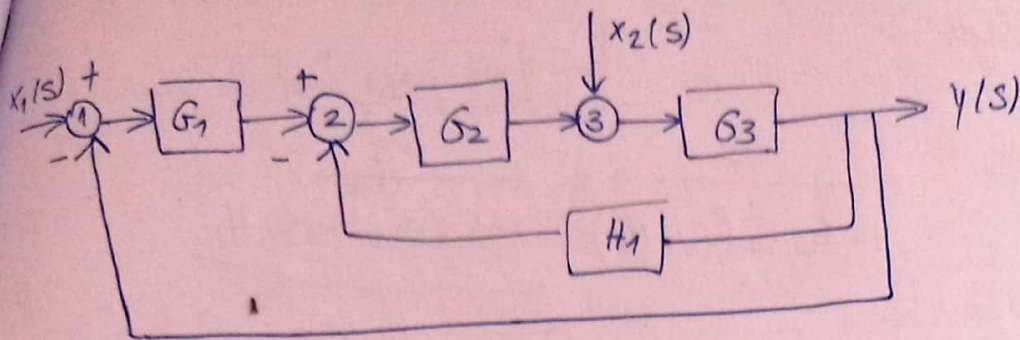


znam dalje,
jednostavno je!



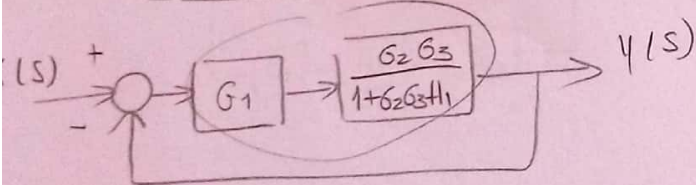
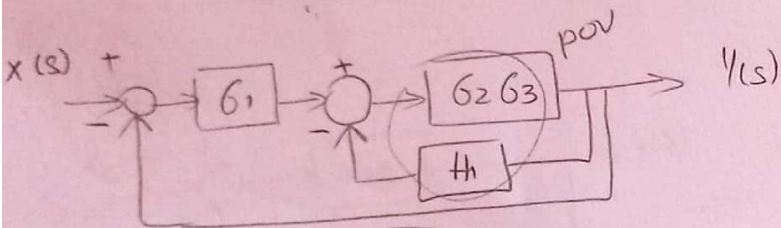
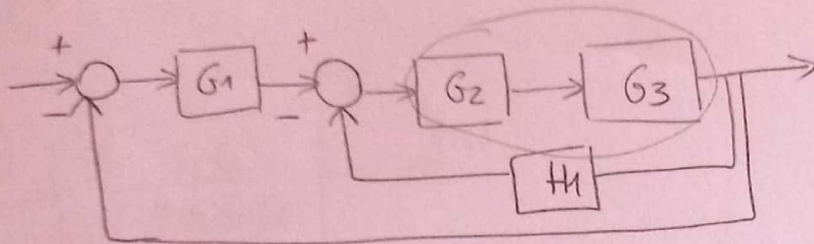
ili POGLEDATI ZADATAK U DIJELO
AUTOMATSKO UPRAVLJANJE I
SUI ZADACI !

ALGEBRA - VIŠE ULAZA



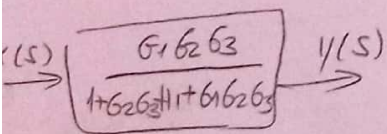
1° $x_1(s) = ?$

serija



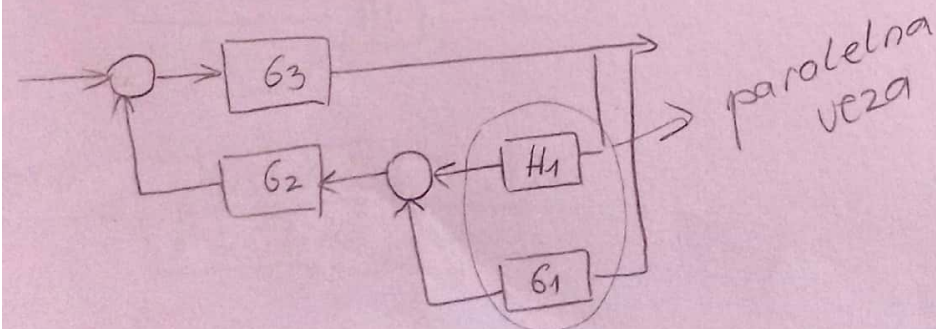
$$\frac{G_1 G_2 G_3}{1 + G_2 G_3 H_1} \text{ POV}$$

$$\frac{\frac{G_1 G_2 G_3}{1 + G_2 G_3 H_1}}{1 + \frac{G_1 G_2 G_3}{1 + G_2 G_3 H_1}} = \frac{\frac{G_1 G_2 G_3}{1 + G_2 G_3 H_1}}{\frac{1 + G_2 G_3 H_1 + G_1 G_2 G_3}{1 + G_2 G_3 H_1}}$$

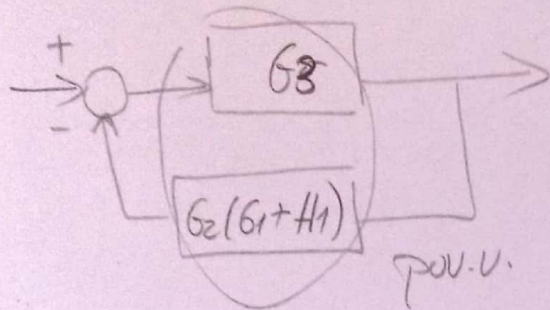
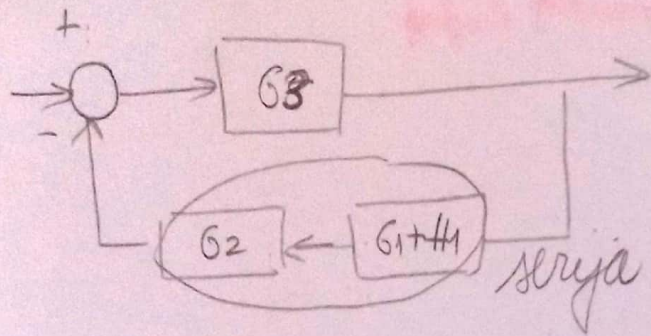


$$= \frac{G_1 G_2 G_3}{1 + G_2 G_3 H_1 + G_1 G_2 G_3}$$

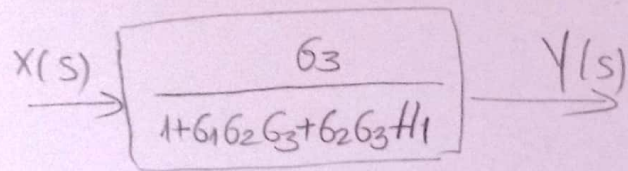
2°

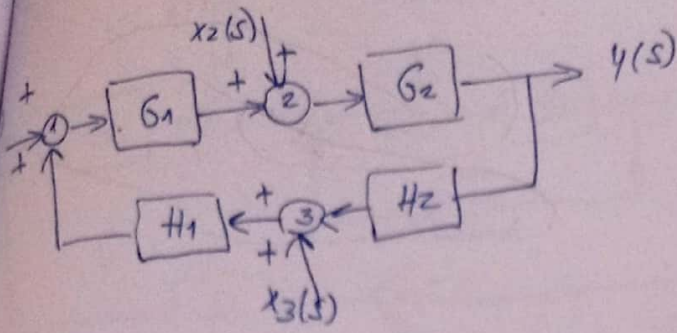


paralelna veza

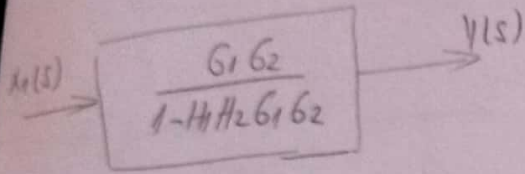
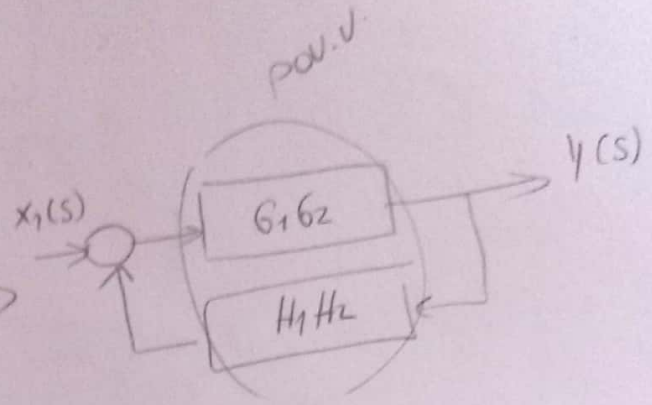
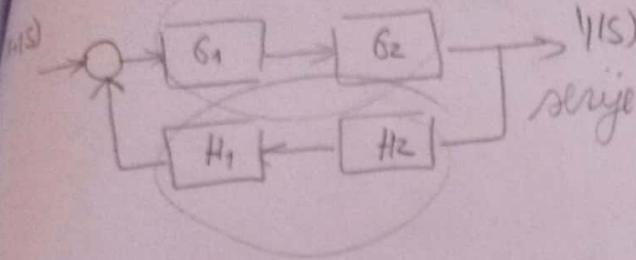


$$\frac{G_3}{1 + G_3 \cdot G_2 (G_1 + H_1)} = \frac{G_3}{1 + G_1 G_2 G_3 + G_2 G_3 H_1}$$

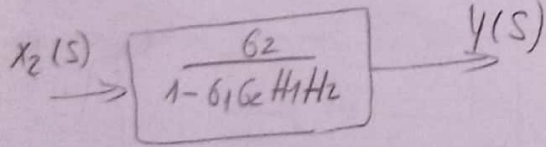
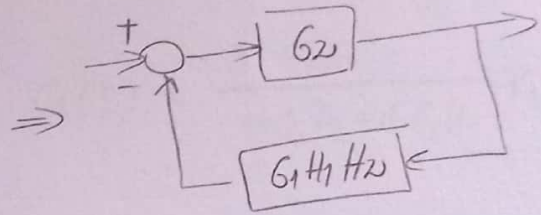
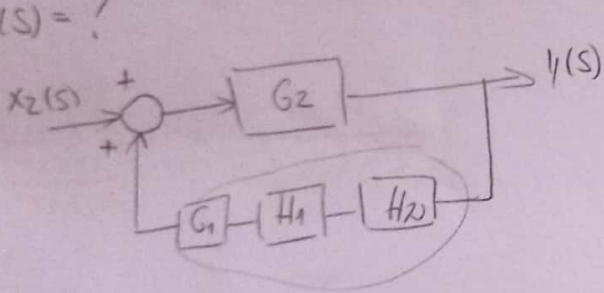




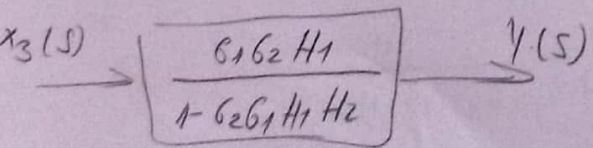
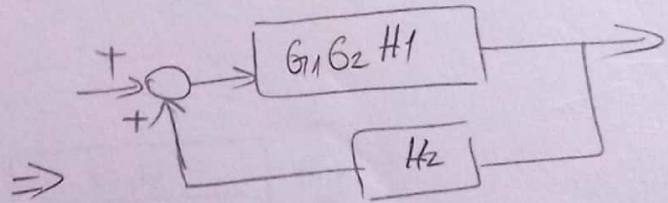
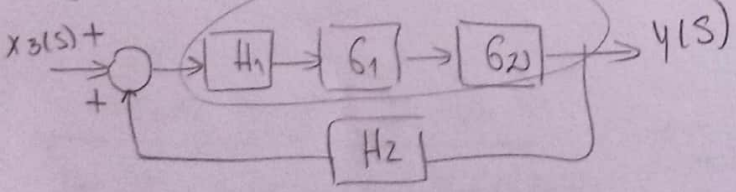
1° $x_1(s) = ?$

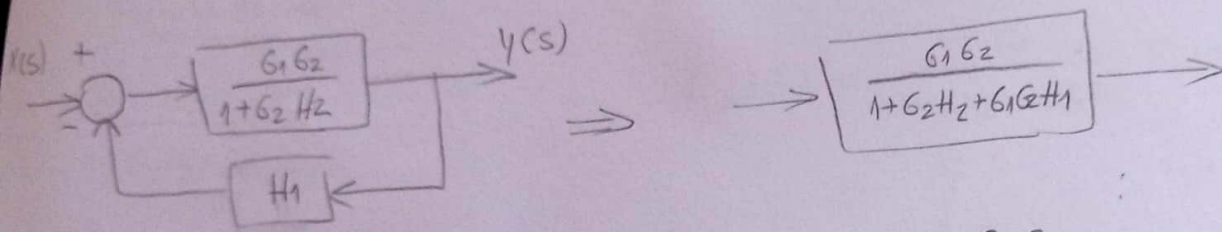
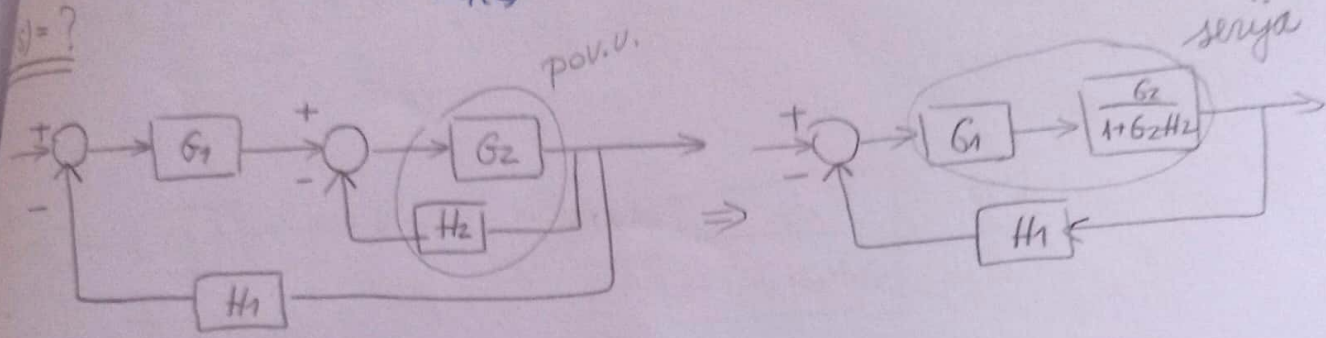
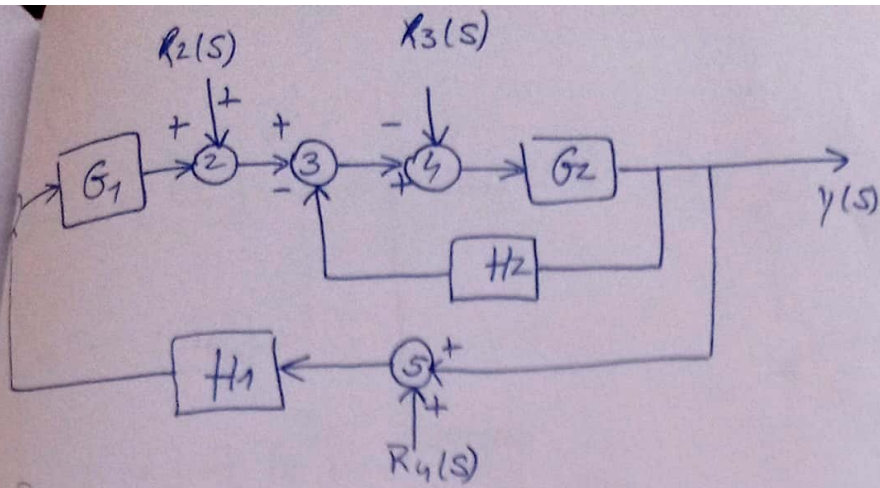


2° $x_2(s) = ?$



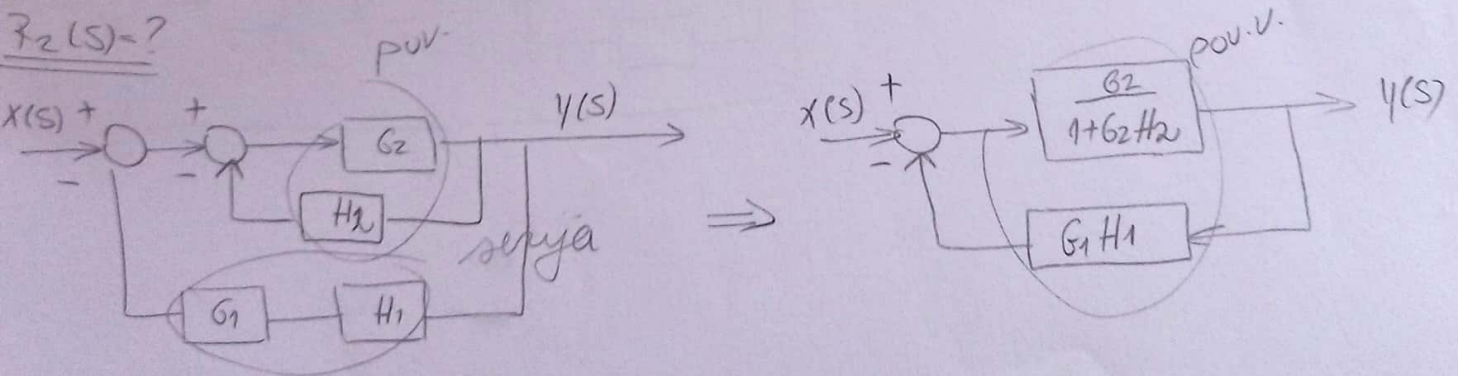
3° $x_3(s) = ?$



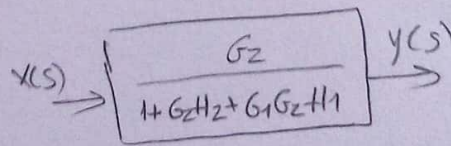


$$\frac{\frac{G_1 G_2}{1+G_2H_2}}{1+\frac{G_1 G_2 H_1}{1+G_2H_2}} = \frac{G_1 G_2}{1+G_2H_2+G_1G_2H_1}$$

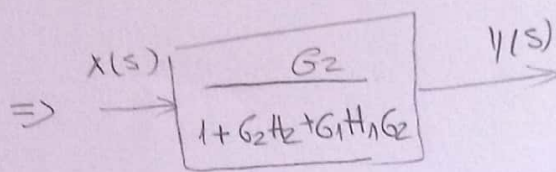
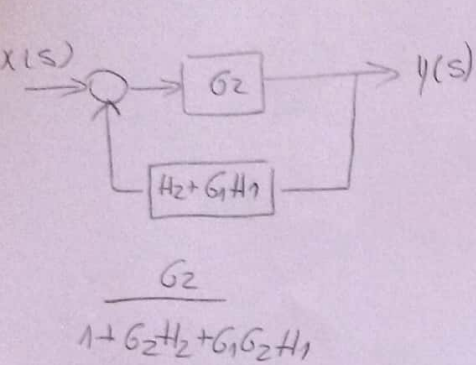
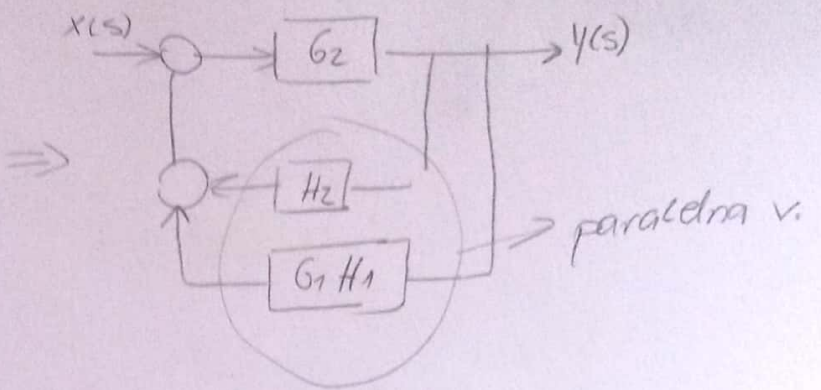
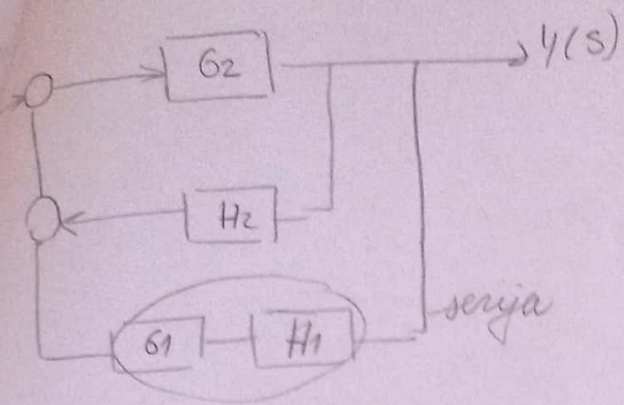
$$C_1(s) = \frac{G_1 G_2}{1+G_2H_2+G_1G_2H_1} R_1(s)$$



$$\frac{\frac{G_2}{1+G_2H_2}}{1+\frac{G_2}{1+G_2H_2} G_1 H_1} = \frac{G_2}{1+G_2H_2+G_1G_2H_1}$$



$$C_2(s) = \frac{G_2}{1+G_2H_2+G_1G_2H_1} R_2(s)$$



$$C_3(s) = \frac{G_2}{1 + G_2 H_2 + G_1 G_2 H_1} \cdot R_3(s)$$

$R_4(s) = ?$

