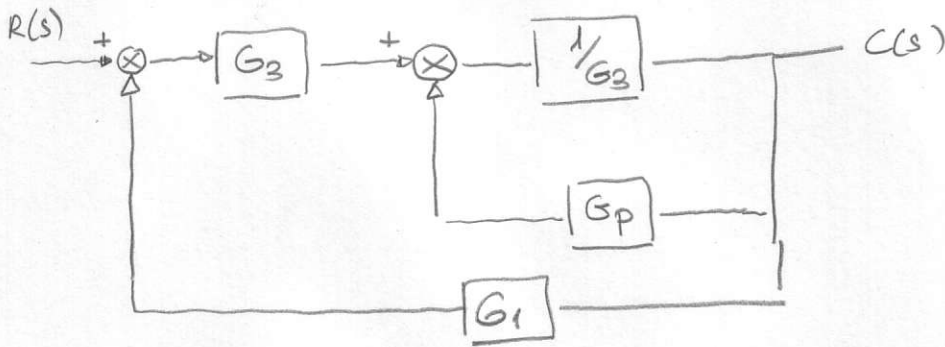
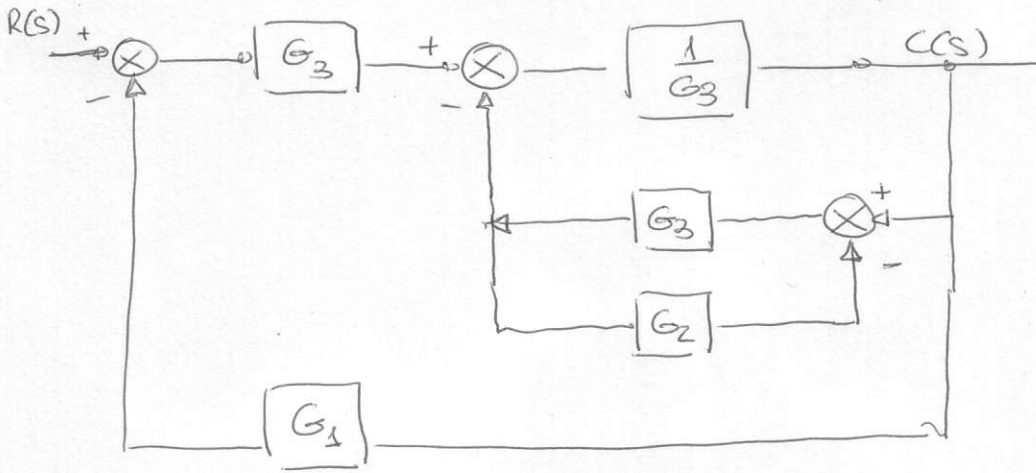
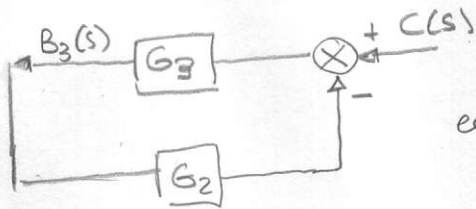


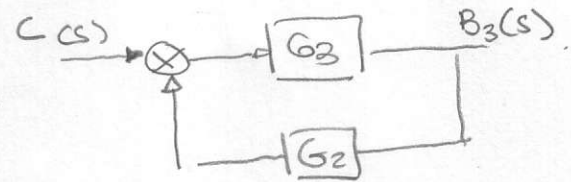
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Cálculo de G_p

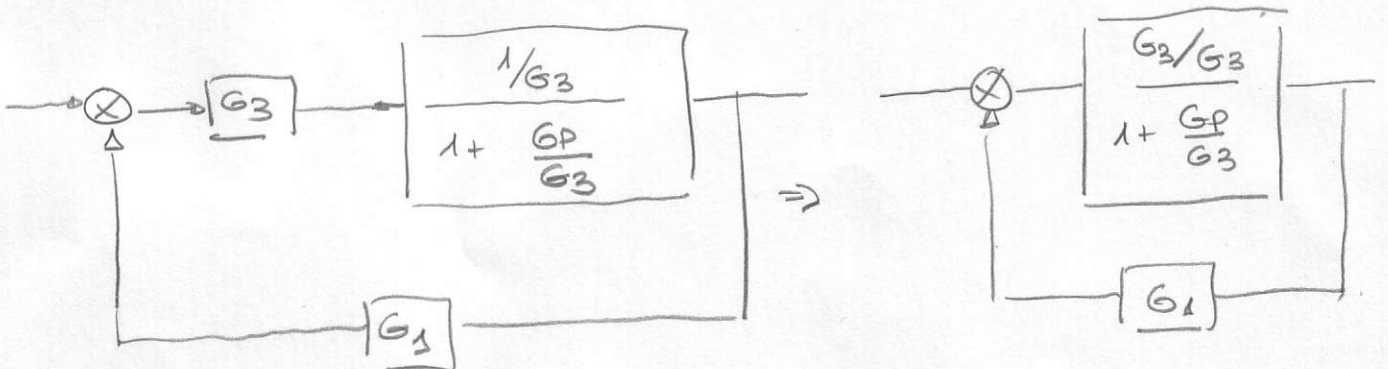


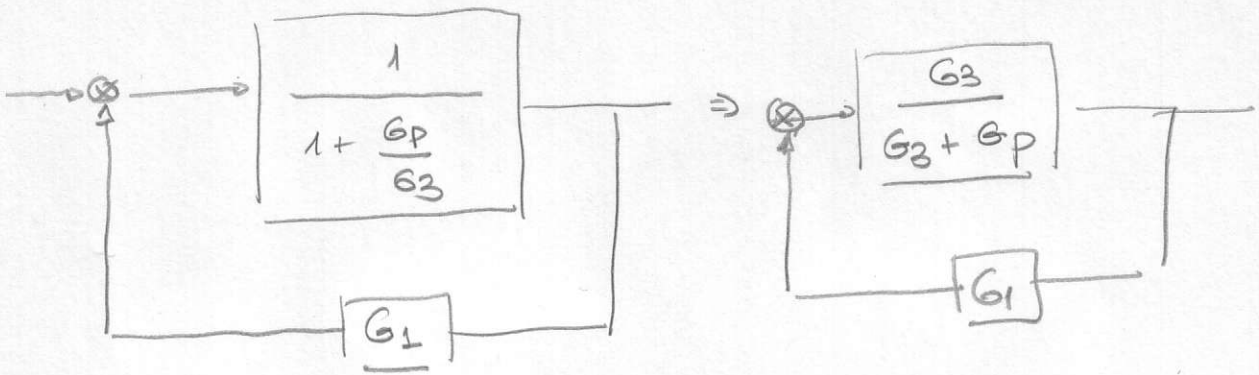
es lo mismo que



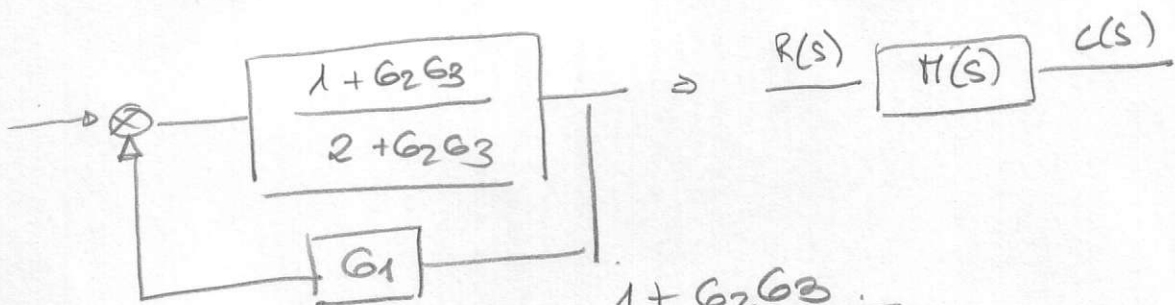
luego:
$$G_p = \frac{G_3}{1 + G_2 G_3}$$

continuamos con el diagrama de bloques:





$$\frac{G_3}{G_3 + \frac{G_3}{1 + G_2G_3}} = \frac{1}{1 + \frac{1}{1 + G_2G_3}} = \frac{1}{\frac{1 + G_2G_3 + 1}{1 + G_2G_3}} = \frac{1 + G_2G_3}{2 + G_2G_3}$$



$$H(s) = \frac{\frac{1 + G_2G_3}{2 + G_2G_3}}{1 + \frac{G_1(1 + G_2G_3)}{2 + G_2G_3}} = \frac{1 + G_2G_3}{2 + G_2G_3 + G_1(1 + G_2G_3)}$$

$$= \frac{1 + G_2G_3}{2 + G_2G_3 + G_1 + G_1G_2G_3}$$