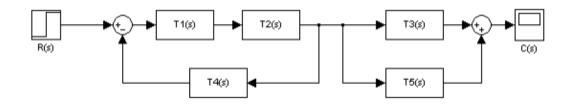
Trabajo Practico N°2.

Teoría de Control

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Ejercicio 1)



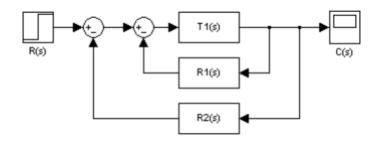
$$\mathsf{U} = \frac{R}{1 + T1T2T4}$$

C = T1 T2 T3
$$(\frac{R}{1+T1T2T4})$$
 + T1 T2 T5 $(\frac{R}{1+T1T2T4})$

$$C = \frac{T1 \ T2 \ R}{1 + T1 \ T2 \ T4} (T3 + T5)$$

$$\frac{C}{R} = \frac{T1\ T2}{1+T1\ T2\ T4} (T3 + T5)$$

Ejercicio 3)



$$X = U - R1 T1 X$$

$$U = R - R2 T1 X$$

$$X + R1 T1 X = R - R2 T1 X$$

$$X = \frac{R}{(1+R1T1+R2T1)}$$

$$C = \frac{T1R}{(1+R1T1+R2T1)}$$

$$\frac{C}{R} = \frac{T1}{(1 + R1 T1 + R2 T1)}$$