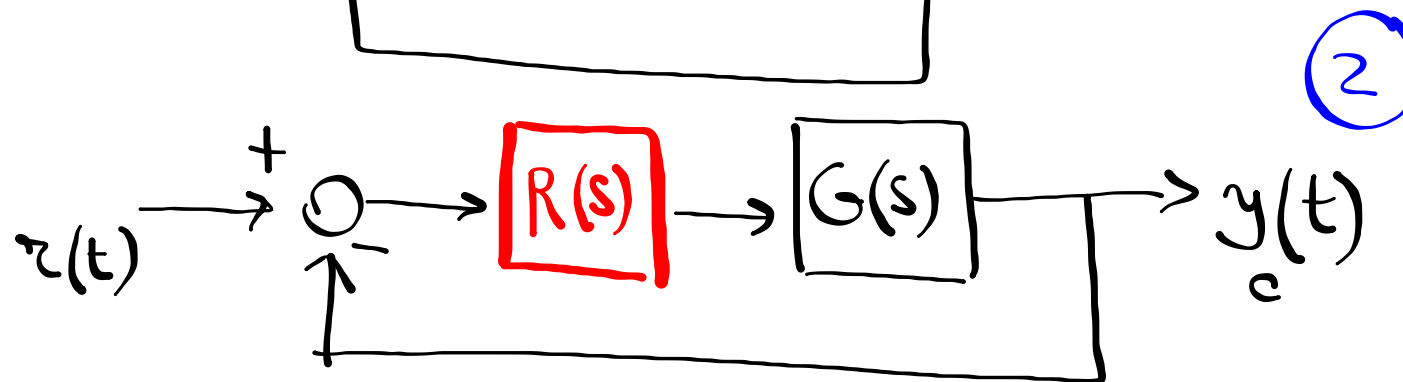
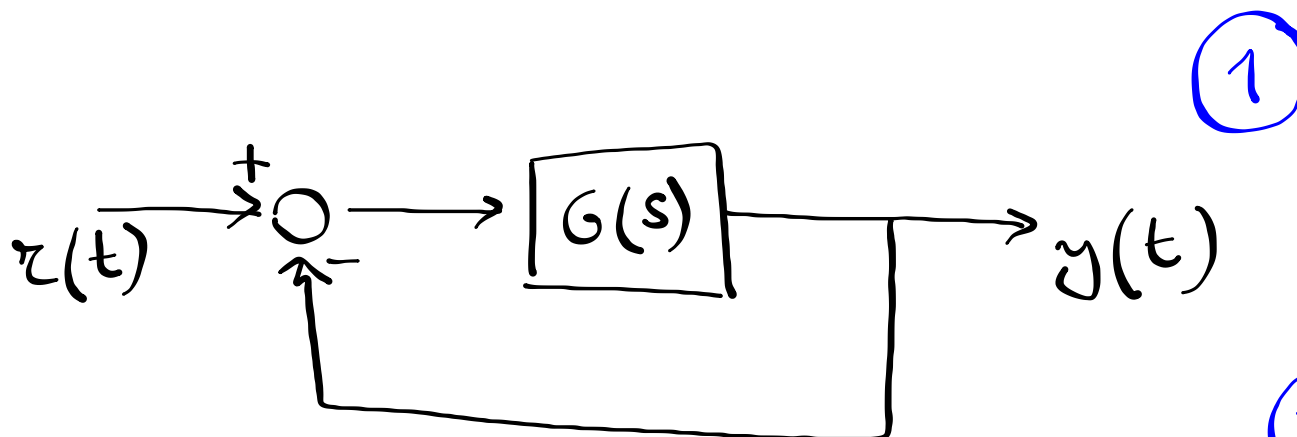


$$G(s) = 0.2 \frac{(1 - 2s)}{s(1 + 10s)(1 + 0.1s)}$$

"Sistema di  
tipo 1"

$$R(s) = \frac{(1 + 10s)}{(1 + 0.1s)}$$

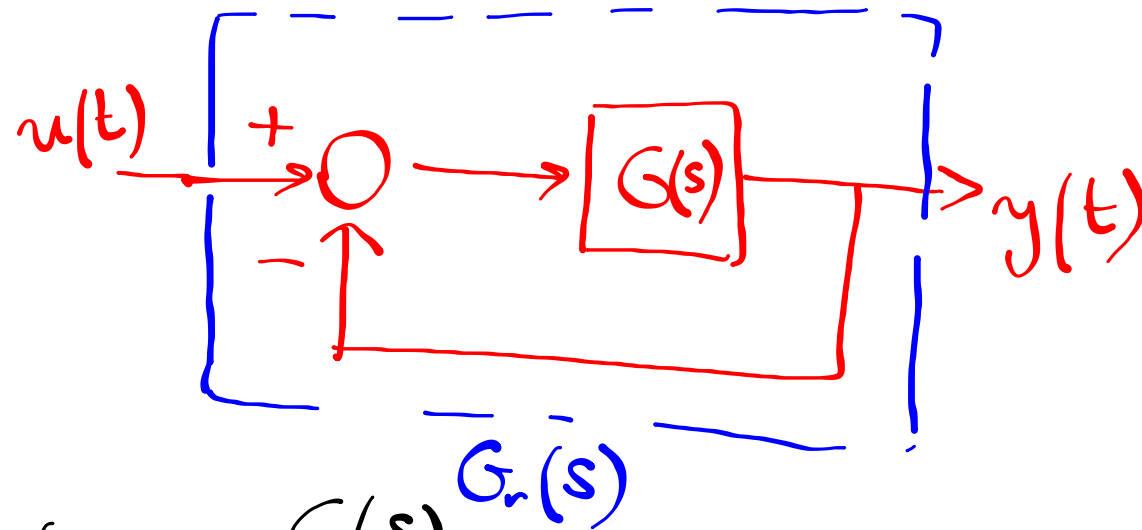


$$\tau_a = 123.33 \text{ s}$$

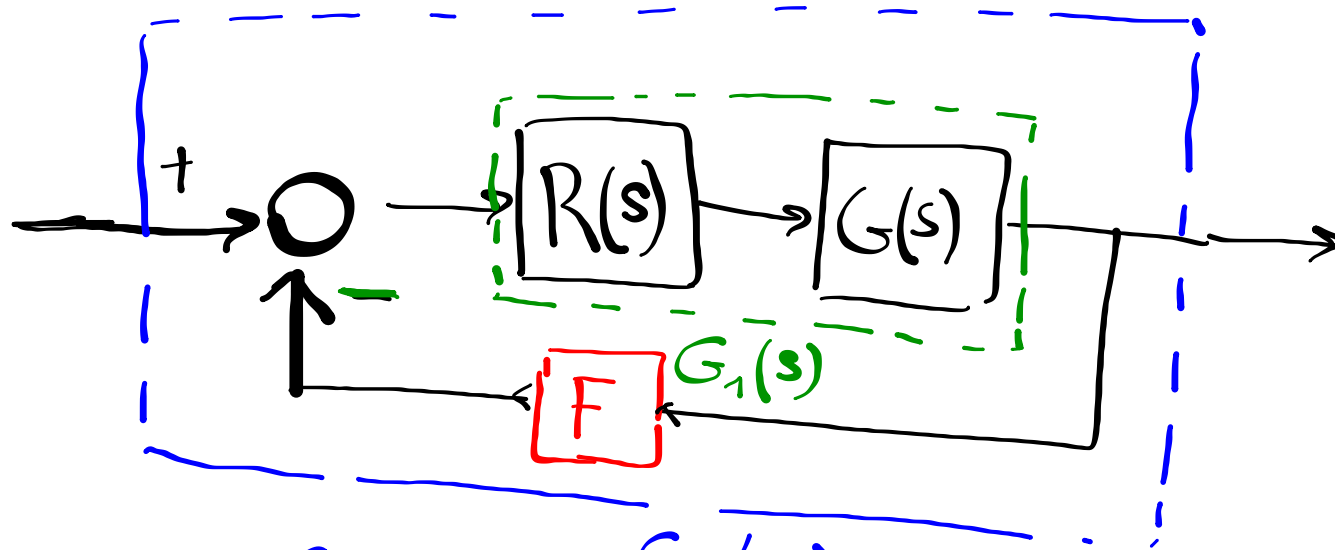
$$S\% = 100 \frac{|y_M - y_\infty|}{y_\infty} = 100 \frac{1.5372 - 1}{1} =$$

$$= 53.72\% \quad y_M = 1.5372 \quad y_\infty = 1$$

$$e_x = 0$$



$$G_r(s) = \frac{G(s)}{1 + G(s)}$$



$$G_2(s) = \frac{G_1(s)}{1 + G_1(s) \cdot F} \stackrel{G_r(s)}{=} \frac{R(s) G(s)}{1 + R(s) G(s) \cdot F}$$

$$G(s) = \frac{1}{s(s+1)^3}$$

$$\left\{ \begin{array}{l} s\% \leq 10\% \\ T_a \leq 20s \end{array} \right.$$