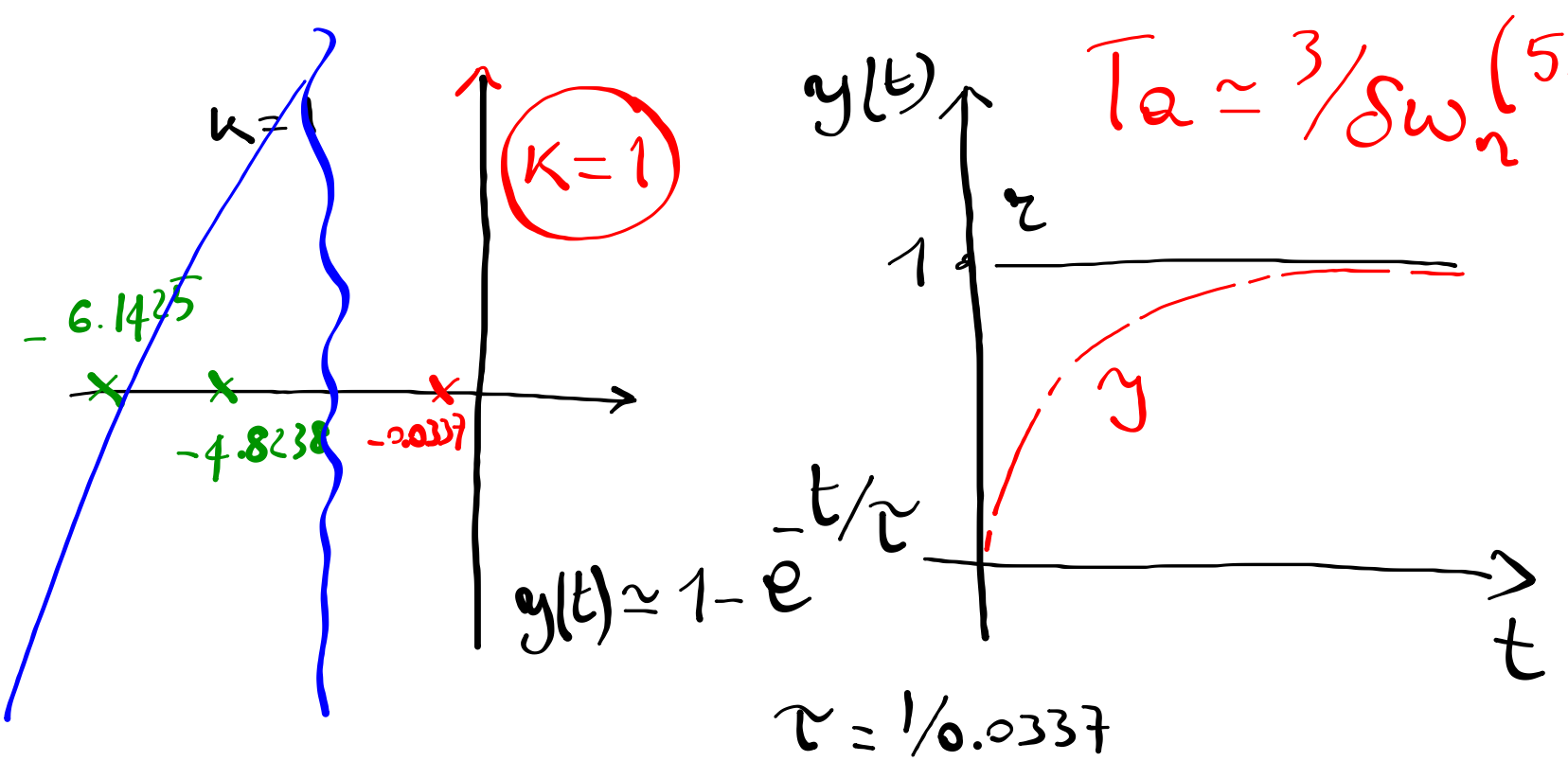

K=1
-6.1425
-4.8238
-0.0337
K=1
y(t)
1
y
t
$T_a \simeq 3/\delta\omega_n$ (5%)
$y(t) \simeq 1 - e^{-t/\tau}$
$\tau = 1/0.0337$

$$R(s) = K_1 \frac{1 + s/9}{1 + s/8}$$

'Guadagno statico' ($s = 0$)

$= 1$

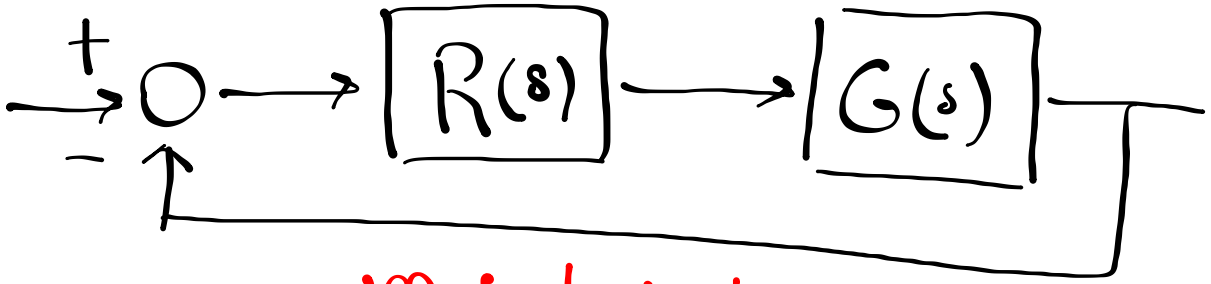
Rete Ritardatrice

f.d.t. forma a costanti di tempo

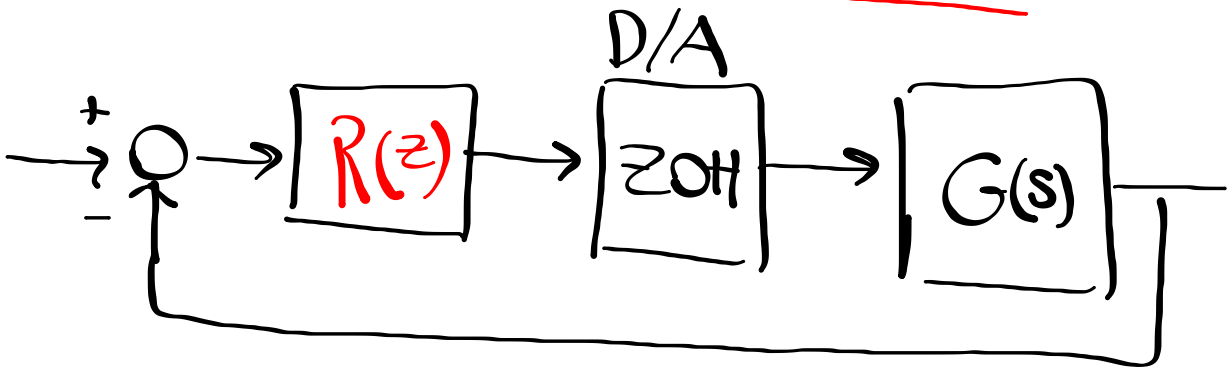
Rete che soddisfa le specifiche

$$\begin{cases} T_a = 2.28\,s \\ S\% = 0.67\% \end{cases}$$

$$R(s) = 30\,\frac{1+s/9}{1+s/8}$$



Metodo indiretto



Discretizzazione con Tustin

$$R(z) = R(s)\Big|_{s = \frac{2}{T}\frac{z-1}{z+1}}$$

Metodi a sostituzione diretta (EI, EA)