

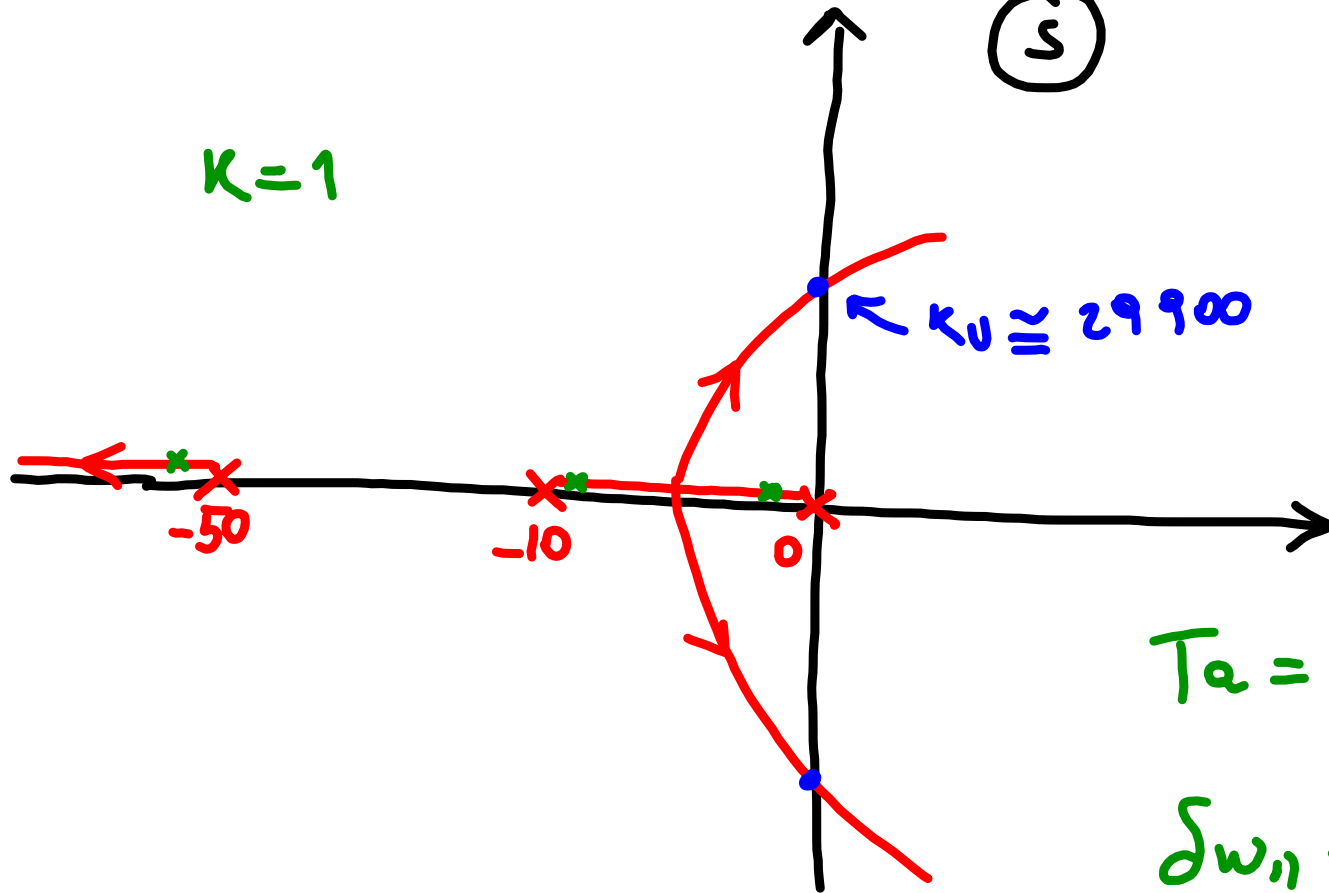
$$G(s) = \frac{1}{s(s+10)(s+50)}$$

$$\left\{ \begin{array}{l} \sigma \leq -7.5 \quad (\delta \geq 0.63) \\ T_a \leq 0.4 \text{ s} \quad (\delta \omega_n \geq 7.5) \end{array} \right.$$

Nota: stima preliminare di  $T_a$

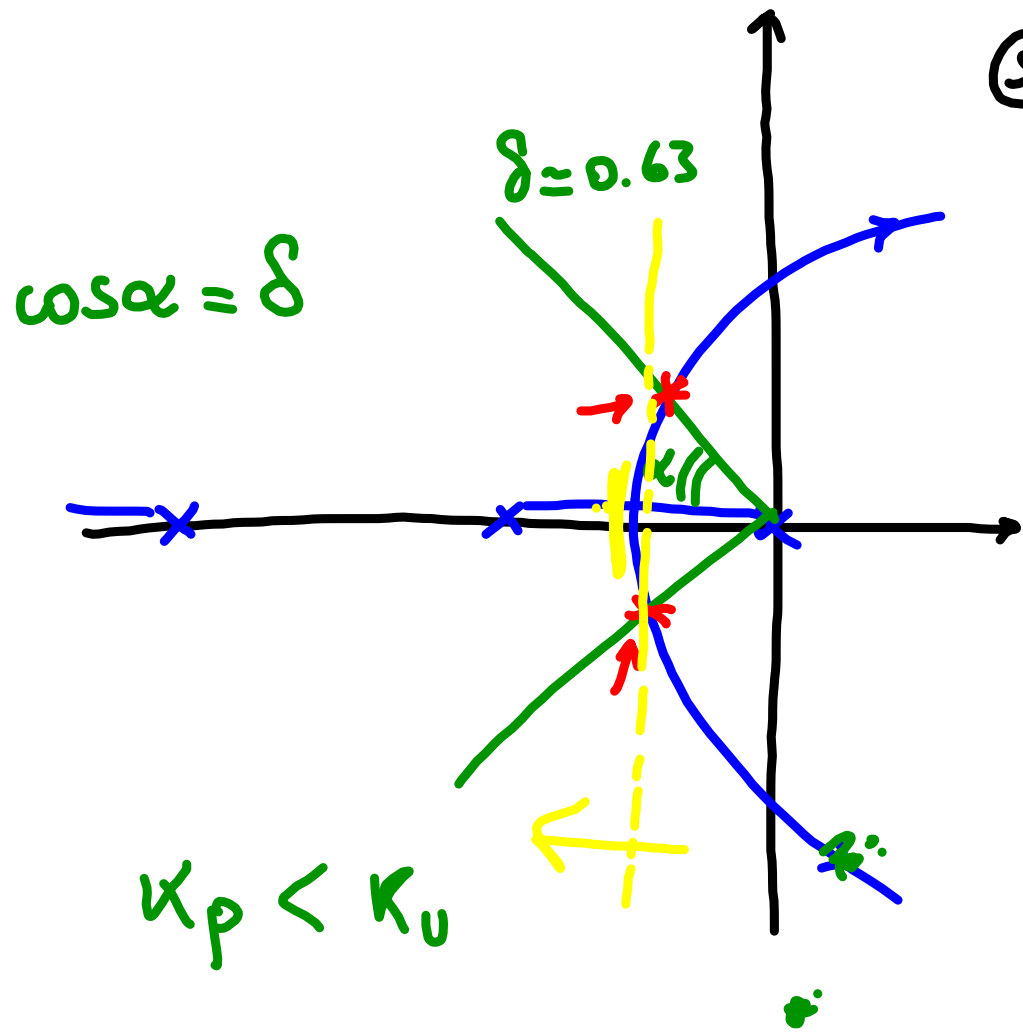
(s)

$K=1$

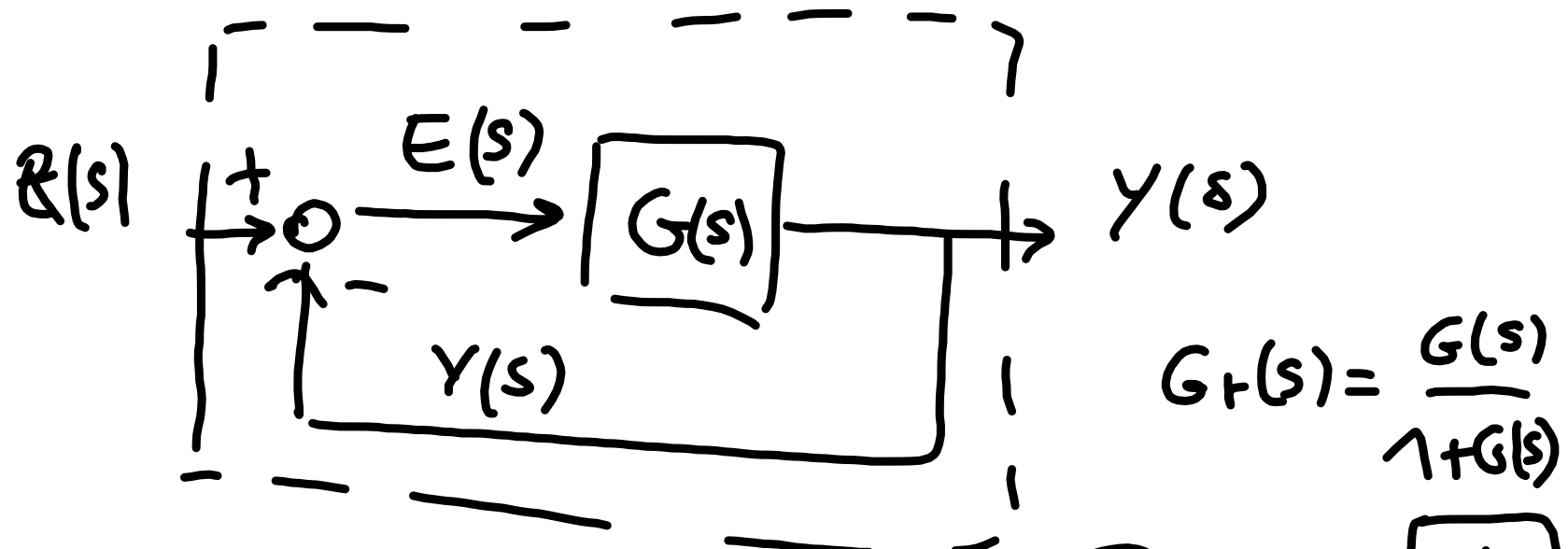


$$T_a = \frac{3}{\delta \omega_n}$$

$$\delta \omega_n \approx 0.0020$$



$s\% \leq 7.5\%$   
 $(\delta \geq 0.63)$   
 $\exists K_p$ : tale  
 per cui i due  
 poli  $x$  mi portano  
 a soddisfare le  
 specifiche?



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

$$\frac{Y(s)}{R(s)} = G_r(s)$$

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

$$E(s) = R(s) - Y(s)$$

$$R(s) - R(s) G_r(s)$$

