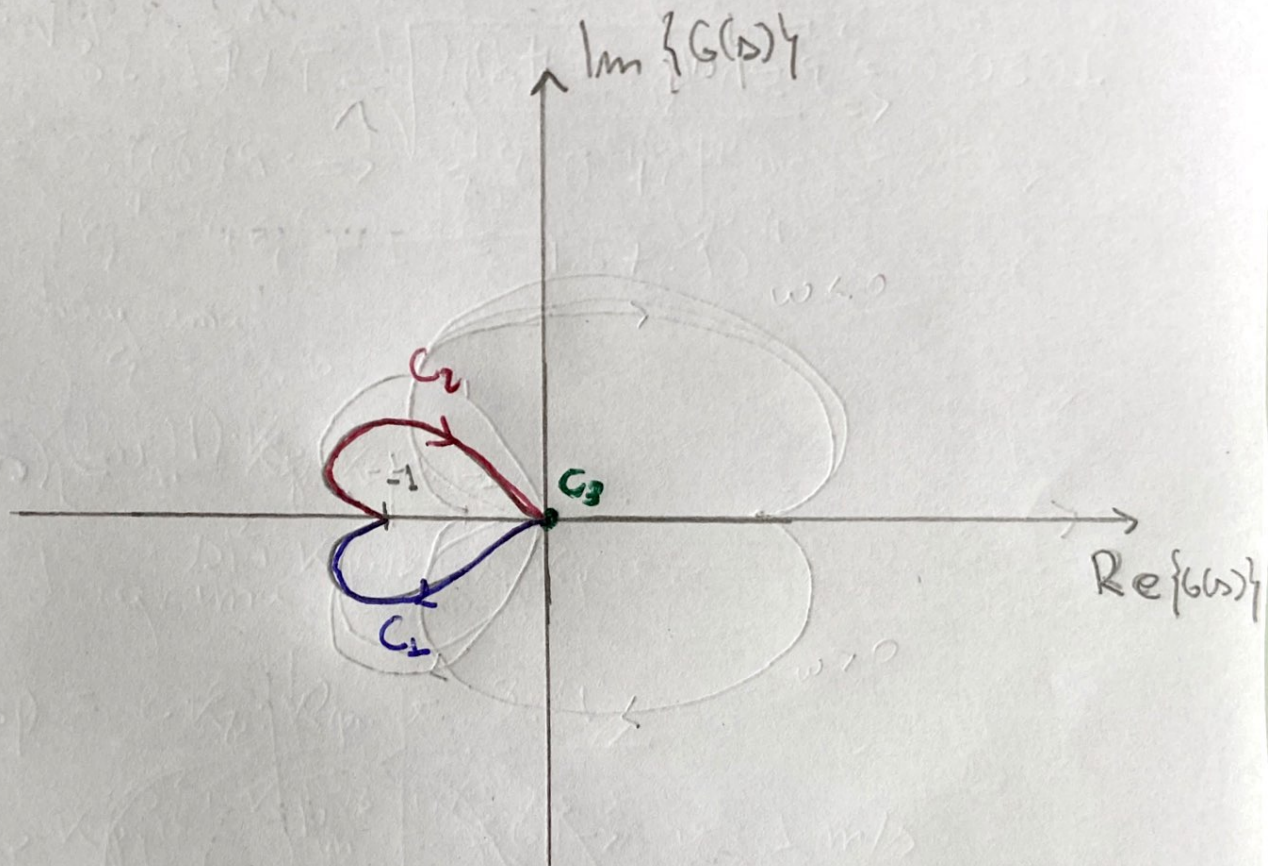


Q2  $G(s) = \frac{10}{(s+5)(s-2)} \rightarrow G(j\omega) = \frac{10}{- \omega^2 - 10 + 3\omega j}$

- $\omega = 0 : |G(j\omega)| = 1$  e  $\angle G(j\omega) = 180^\circ$
- $\omega \rightarrow \infty : |G(j\omega)| = 0$  e  $\angle G(j\omega) = -180^\circ$



→ Cruzamentos:

- $\text{Re}\{G(j\omega)\} = 0 \rightarrow -\omega^2 - 10 = 0 \rightarrow \nexists \omega$
- $\text{Im}\{G(j\omega)\} = 0 \rightarrow 3\omega = 0 \rightarrow \omega = 0 \rightarrow G(j\omega)|_{\omega=0} = -1$