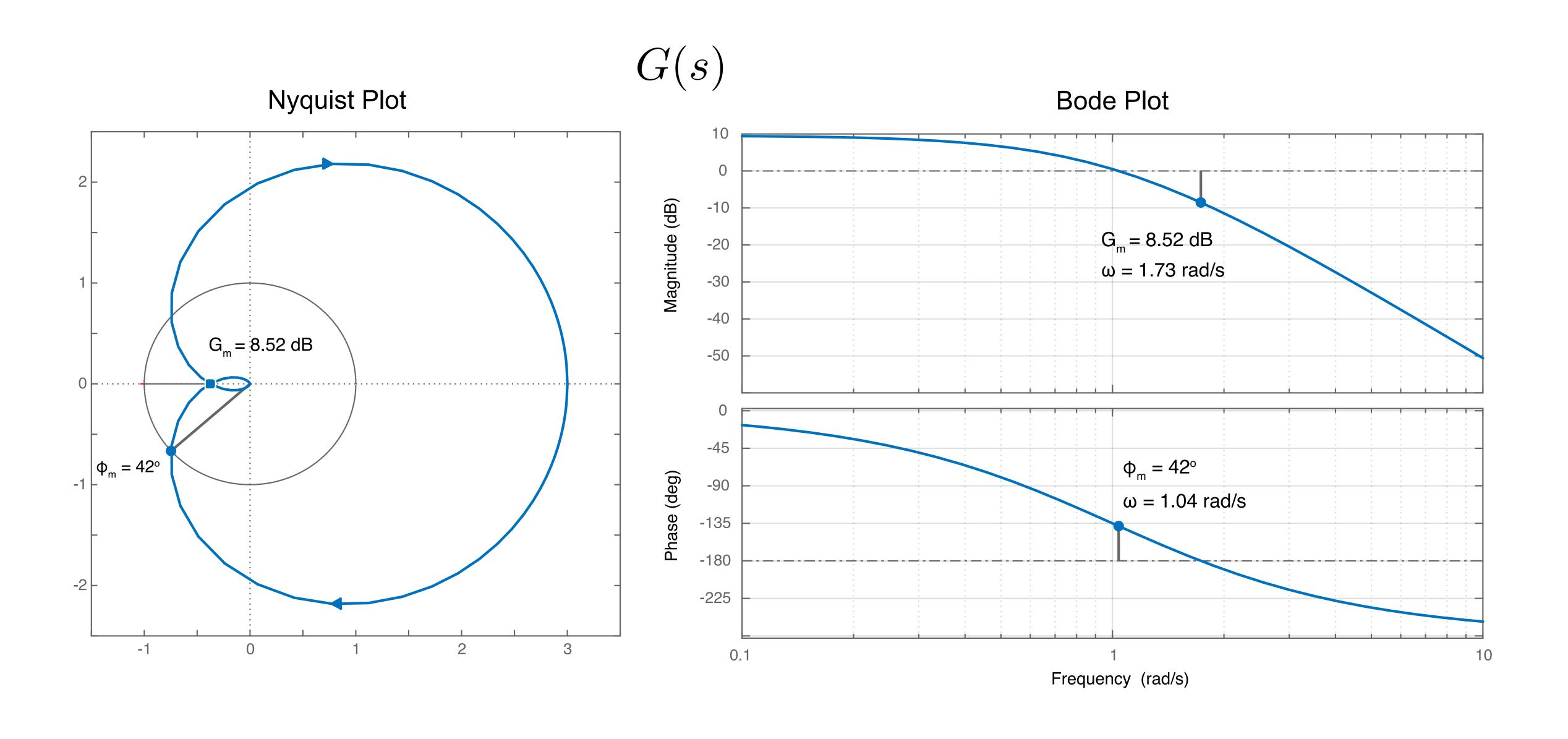
Bode Plot - Gain & Phase Margins

https://github.com/mertankarali/Lecture-Notes/tree/master/METU-EE302/Lecture%2018

Lecture #18

$$\angle [G_{OL}(j\omega_p)] = \pm -180^0 \quad \Rightarrow \quad g_m = \frac{1}{|G_{OL}(j\omega_{pc})|} \quad \text{or} \quad G_m = -20\log_{10}|G_{OL}(j\omega_{pc})|$$



$$|G_{OL}(j\omega_{gc})| = 1$$
 or $M_{dB}\{G_{OL}(j\omega_{gc})\} = 0 \text{ dB}$ \Rightarrow $\phi_m = \pi + \angle G_{OL}(j\omega_{gc})$

