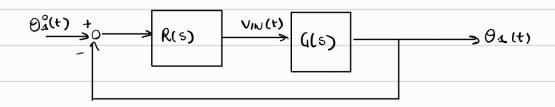
CONTROLLO ASTA

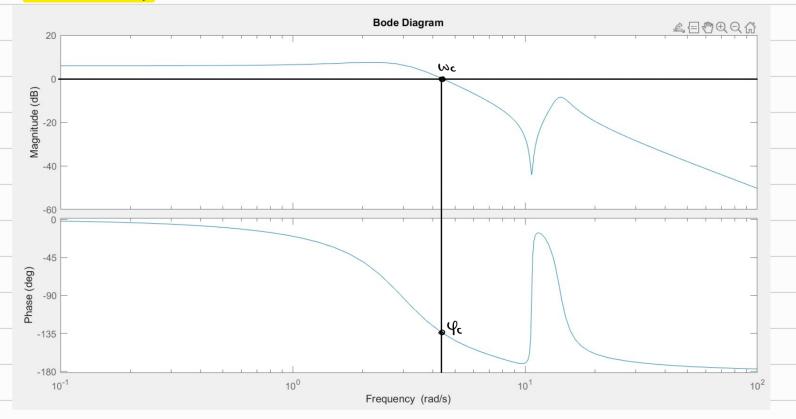
SISTEMA

$$\frac{\theta_{1}}{V_{IN}} = \frac{k4(k_{6}s^{2} + k_{7}s + k_{8})}{\kappa s^{4} + \beta s^{3} + \gamma s^{2} + \delta s + \varepsilon} = \frac{7,498 \cdot \lambda0^{-7}s^{2} + 4,348 \cdot \lambda0^{-7}s + 8,244 \cdot \lambda0^{-5}}{2,378 \cdot \lambda0^{-8}s^{4} + 1,236 \cdot \lambda0^{-7}s^{3} + 5,073 \cdot \lambda0^{-6}s^{2} + \lambda,33 \cdot \lambda0^{-5}s + 4,448 \cdot \lambda0^{-7}}$$

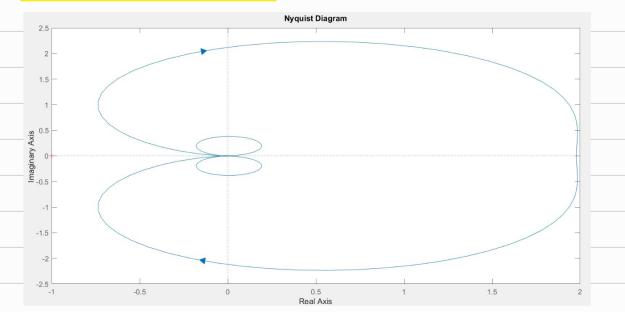
4(5) =
$$\frac{\Theta_{A}}{V_{IN}}$$



BODE DI G(S)



NYQUIST DYAGRAM OF G(s)

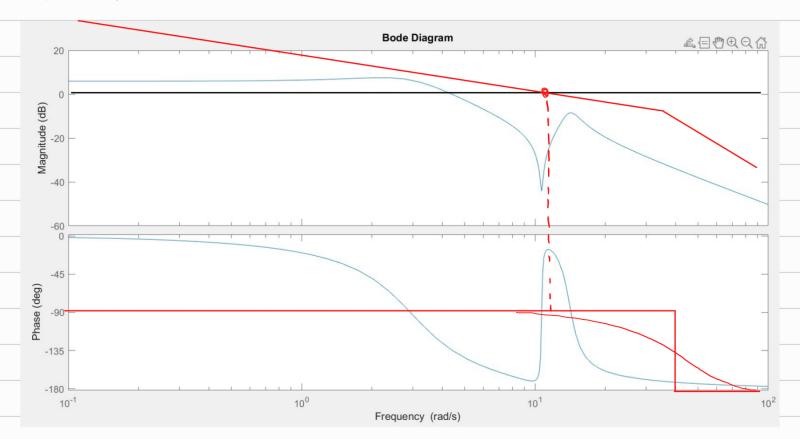


POLES T.F.

$$s_{1} = -1.2384 + 14.0067i$$
 $\omega = 2,97 \text{ rall/s}$
 $s_{2} = -1.2384 - 14.0067i$ $\omega = 2,97 \text{ rall/s}$
 $s_{3} = -1.3590 + 2.6404i$ $\omega = 14.1 \text{ ranl/s}$
 $s_{4} = -1.3590 - 2.6404i$

ZEROS T.F.

CONTROL



$$C(s) = \frac{M}{s} \frac{\Lambda}{1+se} \frac{2,378.\lambda0^{-8}s^{4} + 1,236.\lambda0^{-7}s^{3} + 5,073.\lambda0^{-6}s^{2} + \Lambda,33.\lambda0^{-5}s + 4,148.k0^{-7}}{7,188.\lambda0^{-7}s^{2} + 1,318.\lambda0^{-7}s + 8,211.\lambda0^{-5}}$$

$$L(s) = Q(s)C(s) = \frac{M}{s} \frac{\Lambda}{1+s\epsilon} = \frac{M}{s} \frac{\Lambda}{1+o_{1}o_{2}ss} = \frac{M}{0.025s^{2}+s}$$

$$\rho \pi o vo con = 0.025$$
(what growquenta)

ammesso che voglio Wc= 10 rod/6 /1210

$$C(s) = \frac{L(s)}{G(s)}$$

mum-c = num-r dren-a dren-c dren-L num-a