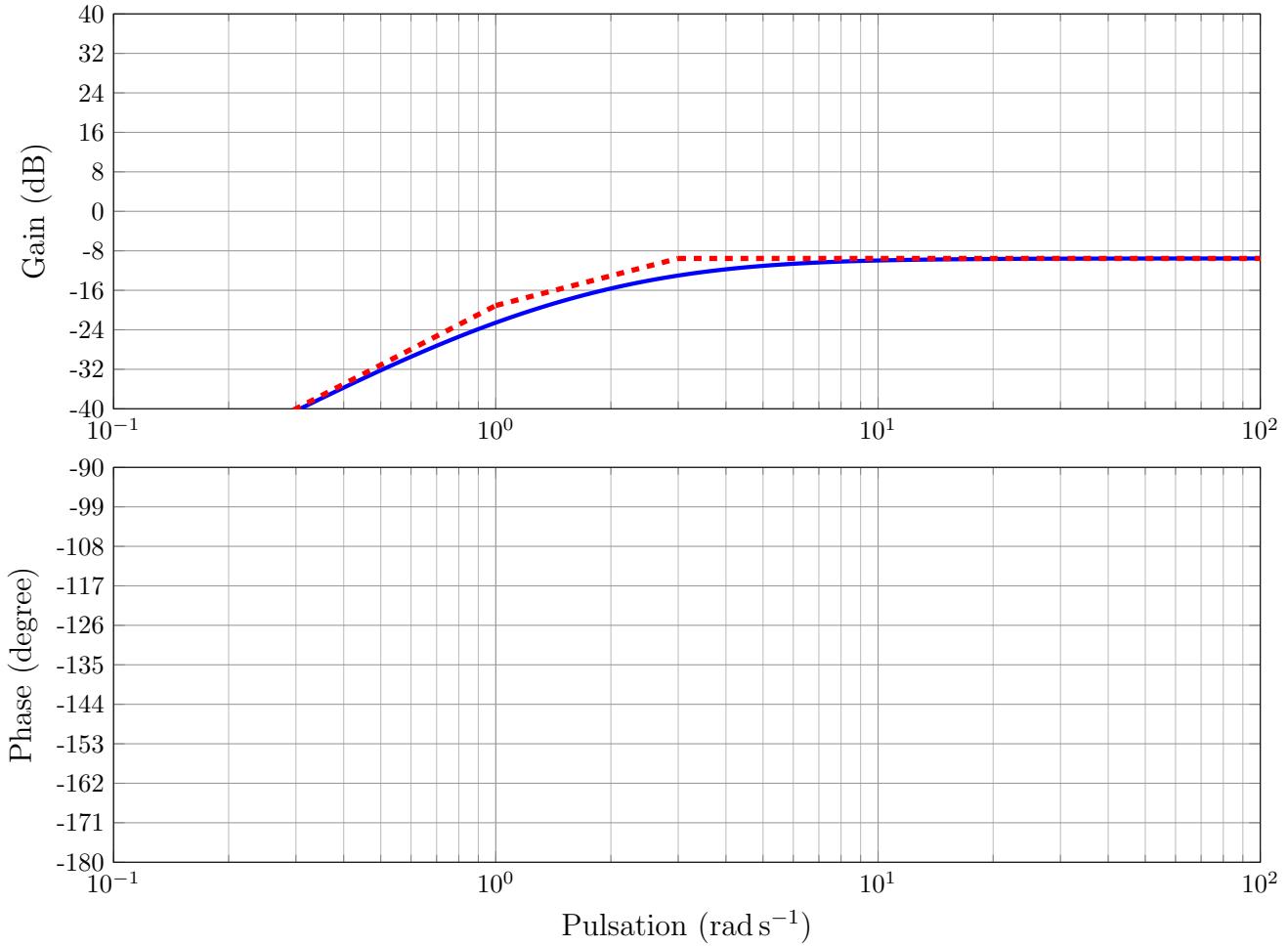


$$H(p) = 0.1111111111111111 \frac{p^2}{0.3p^2 + 1p + 1}$$



Fonctions réelles du gain et du déphasage

$$G(\omega) = |H(j\omega)| = \frac{0(-\omega^2)}{-\frac{\omega^2}{3} + \frac{4j\omega}{3} + 1}$$

$$G_{dB}(\omega) = -9 + 40 \log \omega - 10 \log \left(1 + \left(\frac{\omega}{\omega_1} \right)^2 \right) - 10 \log \left(1 + \left(\frac{\omega}{\omega_2} \right)^2 \right)$$

$$\phi(\omega) = \arg H(j\omega) = 180 - \arctan \left(\frac{\omega}{\omega_1} \right) - \arctan \left(\frac{\omega}{\omega_2} \right)$$

Quelques valeurs particulières calculées

ω (rad s ⁻¹)	Gain (dB)	Phase (°)
0.10000	-59.13289	172.38025
0.19953	-47.27358	164.91112
0.39811	-35.79959	150.73303
0.79433	-25.50355	126.70867
1.00000	-22.55273	116.56505
1.58489	-17.60930	94.40279
3.00000	-13.01030	63.43495
3.16228	-12.74389	61.03992
6.30957	-10.53532	34.43545
12.58925	-9.80961	17.94515
25.11886	-9.61081	9.09048
50.11872	-9.55969	4.56857
100.00000	-9.54677	2.29130