

Esercizi

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1 Complessi

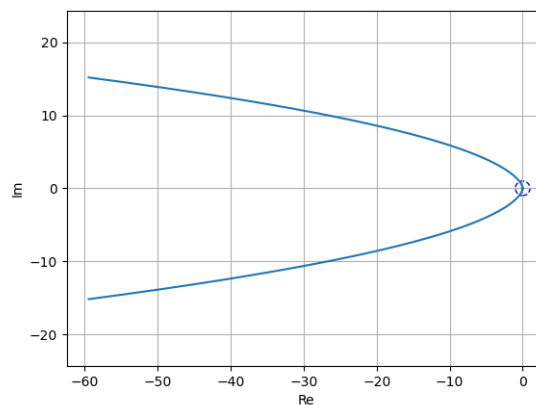
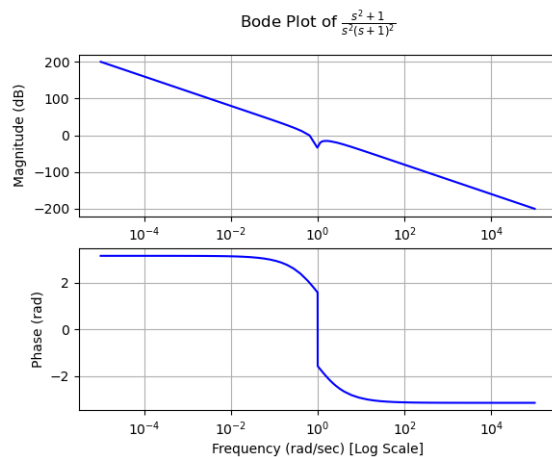
- $2^{(a+ib)} = 2^a (\cos(b \ln(2)) + i \sin(b \ln(2)))$
- $3^{(a+ib)} = 3^a (\cos(b \ln(3)) + i \sin(b \ln(3)))$
- $e^{(a+ib)} = e^a (\cos(b) + i \sin(b))$
- $\alpha^{(a+ib)} = e^{\alpha} (\cos(b \ln(\alpha)) + i \sin(b \ln(\alpha)))$

2 Esercizi

2.1 $s^2 + 1$

Il grafico di bode è:

$$W(s) = \frac{s^2 + 1}{s^2 (s + 1)^2}$$



Il grafico di Nyquist è:
continuo è

nel tempo

$$(2t + (t - 2)e^t + 2)e^{-t}\theta(t)$$