Example 3

$$G(s) = \frac{s-1}{s^3 + s^2 - s + 2}$$

(2 open-loop RHP poles)

Bode plot:
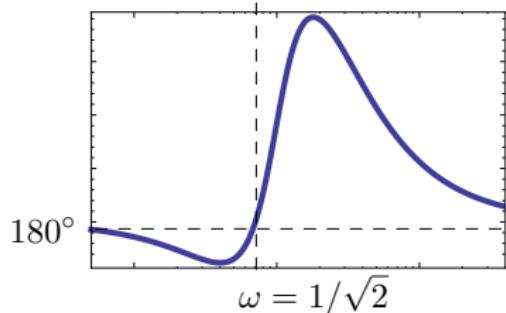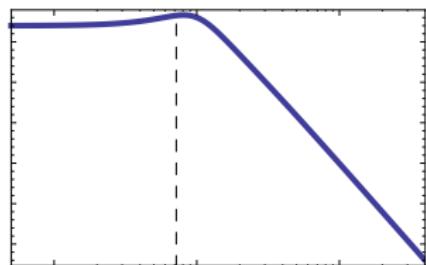
Nyquist plot:

$$\omega = 0 \quad M = 1/2, \ \phi = 180°$$
$$\omega = 1/\sqrt{2} \quad M = 2/3, \ \phi = 180°$$
$$\omega \to \infty \quad M \to 0, \ \phi \to 180°$$