(The sequence of spoken tutorials to be listened/followed is same as that of exercise sets below.)

Control systems

Plot step and sinusoidal response plot for the following systems. Plot Bode plot.

1. Critically damped system

$$G(s) = \frac{2}{s^2 + 6s + 9}$$

2. Undamped system

$$G(s) = \frac{2}{s^2 + 9}$$

3. Unstable system

$$G(s) = \frac{2}{s^2 - 6s + 9}$$