

1. Given the following first order system

$$G_p(s) = \frac{50}{s + 10}$$

Draw the bode plot.

2. Given the following second order system with real poles

$$G_p(s) = \frac{10^6}{s^2 + 10100s + 10^6}$$

Draw the bode plot.

3. Given the following second order system with imaginary poles

$$G_p(s) = \frac{4}{s^2 + 0.5s + 4}$$

Draw the bode plot.