

Laboratory 9: Bode Plot

Problem 19:

- a. Sketch the straight-line approximation of the bode plot of the transfer function

$$G(s) = \frac{10s + 5}{2s^2 + 4s + 2}$$

Hint: Use the bode plot template on the second page.

- b. Determine the bode plot of $G(s)$ using Matlab.

Problem 20:

- a. Sketch the straight-line approximation of the bode plot of the transfer function

$$G(s) = 500 \frac{1 - s}{(1 + s)(s^2 + 7s + 100)}$$

Hint: Use the bode plot template on the third page.

- b. Determine the bode plot of $G(s)$ using Matlab.

Bode Diagram



