

Homework #12 – Frequency Response

1. Find analytical expressions for the magnitude and phase response of each $G(s)$ below
 - a. $G(s) = 1/(s+2)(s+4)$
 - b. $G(s) = 1/s(s+2)(s+4)$
 - c. $G(s) = (s+5)/(s+2)(s+4)$
 - d. $G(s) = (s+3)(s+5)/s(s+2)(s+4)$
2. For each function in problem 1, make a plot of the magnitude and phase response using the analytical expressions you derived.
4. For each function in problem 1, make an asymptotic plot of the magnitude and phase response. Compare the results of 2 and 4.