Homework 5 - EECE 352 - Electronics 2 - Winter 2009
Name:

ELECTRONICS II
Due Monday February 2, 2009 in class

For the following three amplifier gain functions, put $A_i(s)$ (i=1,2,3) in the following generic from $A_M F_L(s) F_H(s)$. Identify A_M, $F_L(s)$, and $F_H(s)$ for each of the A_i's and give the values of the low and/or high-frequency poles and zeroes in rad/s.

$$A_1(s) = 10^4 \frac{s(s+10)(s+50,000)}{(s+50)(s+200)(s+7,000)} \tag{1}$$

and

$$A_2(s) = \frac{10^4(s+10^5)}{(s+10^3)(s+10^4)} \tag{2}$$

$$A_3(s) = \frac{10^5 s(s+10^4)}{(s+10)(s+10^3)} \tag{3}$$

For all three $A_i(s)$, estimate the value of the gain (magnitude of A(s) in dB) at ω = 1 rad/s **without making a Bode plot**. Explain how you get your answers.