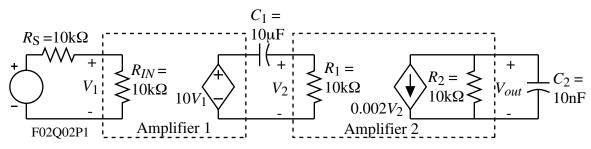
Homework Assignment No. 2

Due on Wednesday, January 22, 2003

- 1.) Problem 11.16 of the text.
- 2.) Problem 11.34 of the text.
- 3.) Problem 11.37 of the text.
- 4.) Problem 11.43 of the text.
- 5.) Problem 11.55 of the text
- 6.) a.) Find the transfer function, $V_{out}(s)/V_S(s)$, of the circuit shown and identify the location of the poles and zeros. What is the gain in the region where the transfer function is independent of frequency?



b.) Sketch the asymptotic (straight-line) plot for the magnitude and phase of transfer function shown. Use the same plot for phase shift. Label the phase shift on the right side of the plot.

$$A(s) = \frac{-10s}{(s+1)(s+100)}$$

