Homework Assignment No. 2

Due on Wednesday, September 4, 2002

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 $V_{out}(s)/V_{in}(s)$ and identify the numerical value of the midband gain and all poles and zeros if g_m is 1mA/V.

(b.) If the the transfer function above is

$$\frac{V_{out}(s)}{V_{in}(s)} = \frac{100\,s}{s+100}$$

sketch an asymptotic magnitude on the curve below.