EE321 – Fall 2002

Homework 2

Due September 9, 2002

1. Problem 1.13.
   - Power dissipated is 24 mW.
2. Problem D1.15.
   - Upper limit on V_i is 40 mV.
3. Problem 1.18.
   - $A_v = 39$ dB
   - $A_p = 78$ dB
   - Largest sinewave input is 78 mV.
   - Power available is 0.5 W. (Answer in book is wrong.)
4. Problem 1.27.
   - Answer in book is correct.
5. Problem 1.29.
   - $$A_v = \frac{-\alpha v_s R_C}{(1-\alpha)R_B + R_E + R_e}$$
   - Answer in book is wrong.
6. Problem 1.34.
   - Answer in book is correct.
7. Problem 1.42.
   - Answer in book is correct.
8. Problem 1.43. Is $T_i(s)$ a high-pass or low-pass transfer function? Is $T_o(s)$ a high-pass or low-pass transfer function?
   - Answer in book is correct.