EE321 – Fall 2002

Homework 12

Due November 18, 2002

1. Problem 5.31.

2. Problem 5.41 (b), (d).

3. Problem 5.45 (a).
   I found it hard to locate all the text for the problem. Here it is:

   For the device in the circuit of Fig. P5.45 (a), $|V_t| = 1$ V, $\lambda = 0$, $\gamma = 0$, $\mu_n C_{ox} = 20\ \mu$A/V^2, $L = 1\ \mu$m, and $W = 20\ \mu$m. Find the labeled currents and voltages.

4. Find the voltage on the drain (V_D) and the source (V_S) of the MOSFET in the following circuit, where $V_t = 2$ V, and $k_n' W/L = 0.25$ mA/V^2.