

School of Electronics and Computing Systems
20-ECEE-352

ELECTRONICS II
Spring Quarter 2010

Homework #1.
Due Tuesday April 6, 2010

For the following generic transistors, find the proper bias resistors.
Simulate the circuits using PSpice and compare with your calculations. Turn in your solutions with the simulation files and results.

Bipolar: $\beta=200$, $V_{CC}=10V$, $I_C = 3 \text{ mA}$, $R_E = 0.5 \text{ k}\Omega$.
FET: $k=0.5 \text{ mA/V}^2$, $V_t = -2V$, $I_D=0.5 \text{ mA}$, $V_{CC} = 20V$

