UNIVERSITY OF TEXAS AT DALLAS
Department of Electrical Engineering
EE/CE 3311 – Electronic Circuits
Assignment I

Date assigned:	8/29/2012
Date due:	9/5/2012

Problem 1.1
Repeat Example 1.11 in Fundamentals of Microelectronics if a resistor of value R1 is
added between the top terminal of vin and the output node.

Problem 1.2
Consider the circuit below where $I_s = 2 \times 10^{-15} A$. Calculate V_{D1} and I_X for
$V_X = 0.5V, 0.8V, 1V, and\ 1.2V$. Note the change in V_{D1} is very small for $V_X \geq 0.8$.