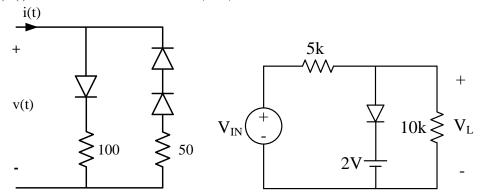
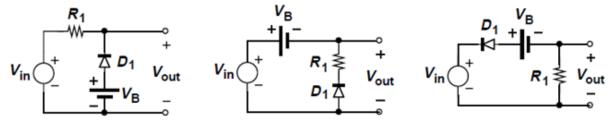
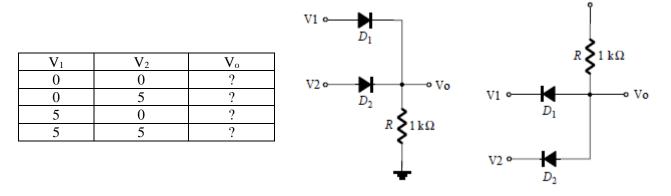
1) Sketch v(t)-i(t) characteristic for the first circuit, and, V_{IN} - V_L characteristic for the second circuit.



2) Plot the input/output characteristics of the circuits below. Assume $V_B=2\ V.$



3) Find the V_o values in the table for the following circuits. State what kind of gate is implemented (AND, OR, XOR, NAND, NOR, EQV ?) for each case.



4) Design a circuit (using ideal diodes and other circuit elements) such that y = |x|, where x is the input, y is the output voltage.