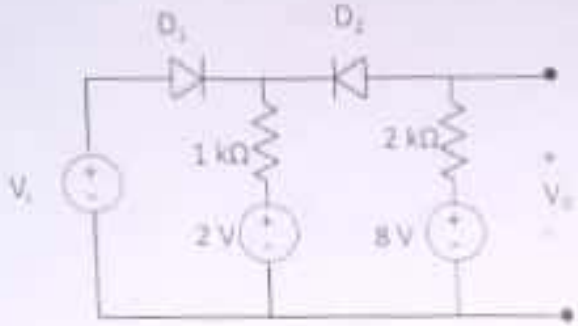
EE 101: Introduction to Electrical and Electronic Circuits, 2019

Quiz 3

(Show all the steps in the solution properly. Weightage=7 %)

1) Consider the circuit with ideal diodes as shown below. Find out and plot the output voltage V_0 as a function of V_i, for V_i=-10V to +10 V. (Marks 3.5)



2) The BJTs Q1 and Q2 in the circuit below have beta values of β1 and β2 respectively. Find out the minimum values of β1 and β2 such that Q1 and Q2 are in saturation. (marks 3.5)