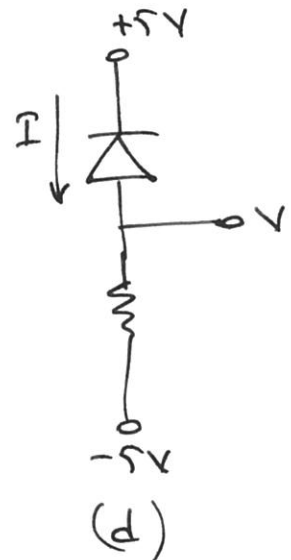
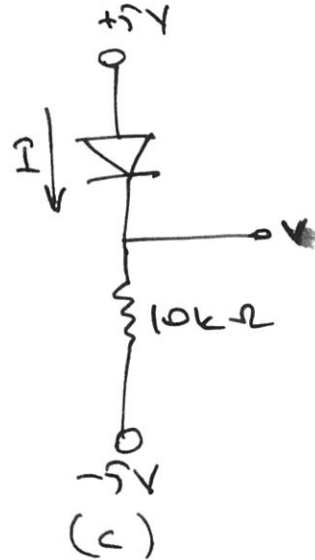
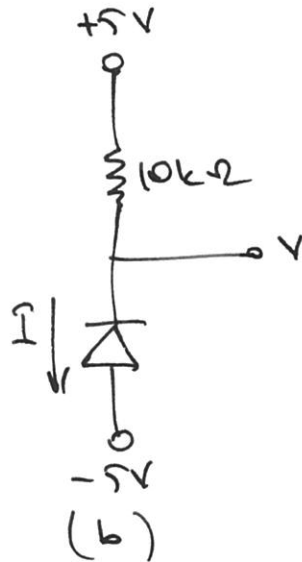
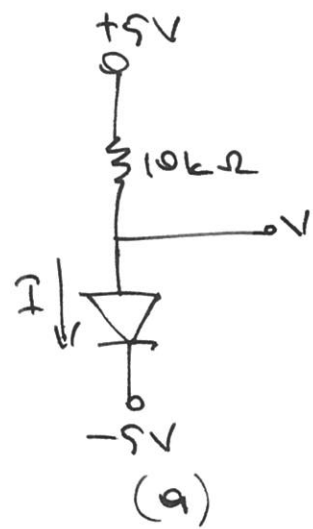
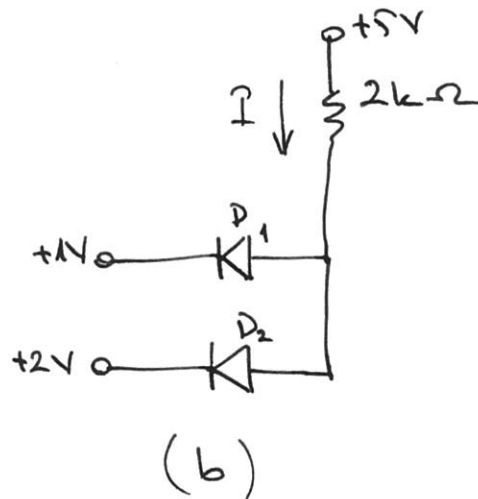
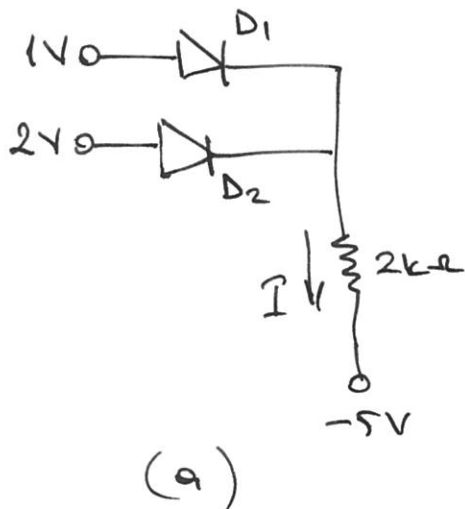


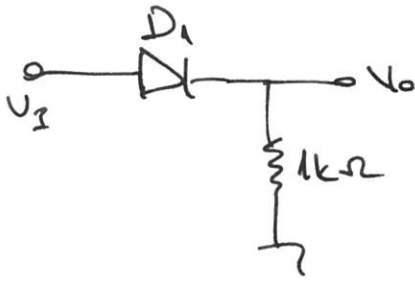
- 1 For the circuits shown below, find the values of the voltages and currents indicated, by using ideal diode model.



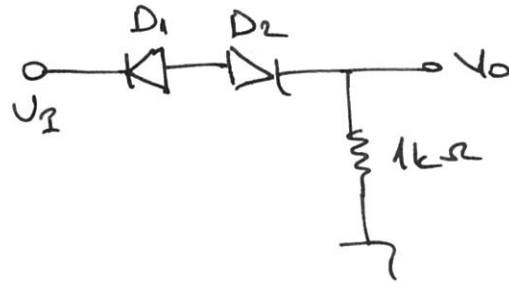
- 2 For the circuits shown below, using ideal diodes, find the values of the labeled voltages and currents.



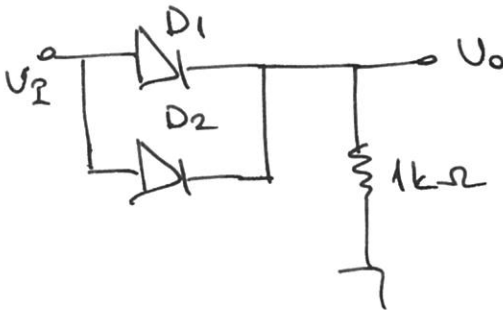
③ In the each of the ideal-diode circuits shown below,  $u_i$  is 1-kHz, 10-V peak sine wave. Sketch the waveform resulting at  $u_o$ . What are the positive and negative peak values?



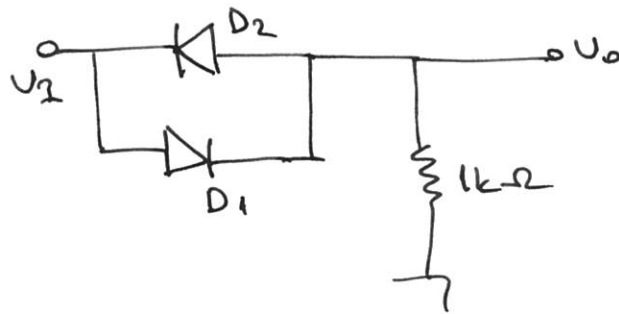
(a)



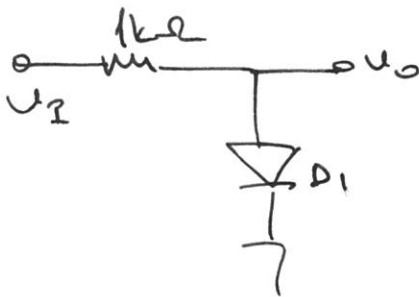
(b)



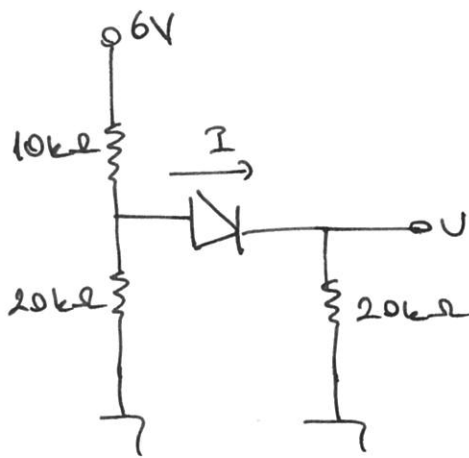
(c)



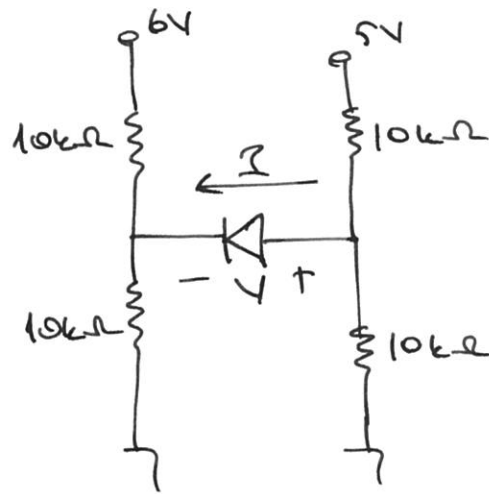
(d)



- ④ Assuming that the diodes in the circuits shown below are ideal, utilize Thevenin's theorem to simplify the circuits and thus find the values of the labeled currents and voltages.



(a)



(b)