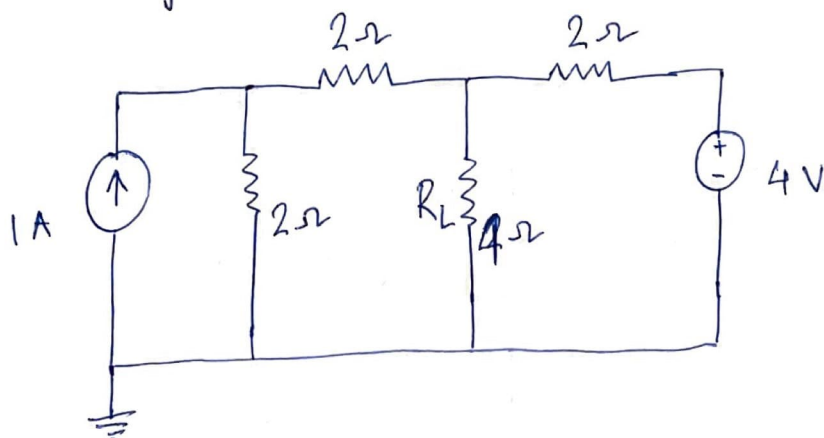
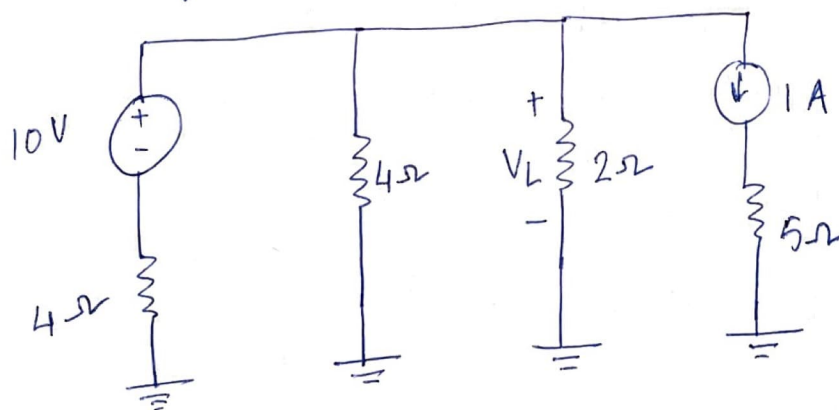


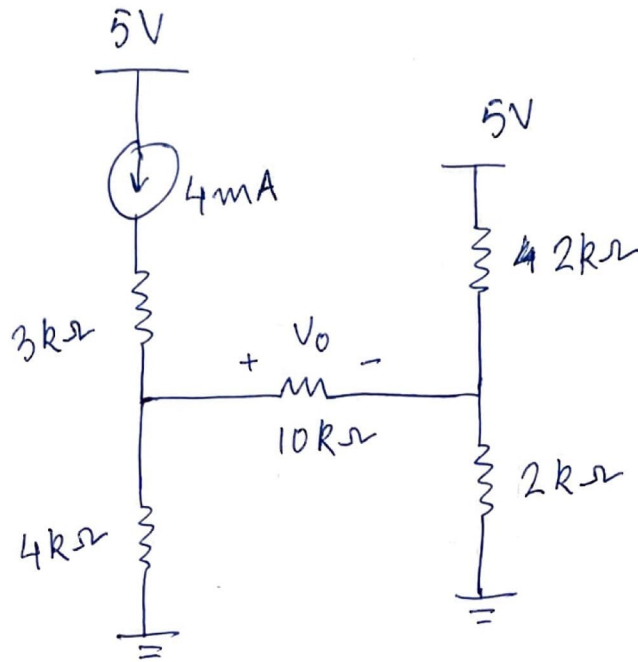
Q1) Using the Thevenin's equivalent circuit, calculate the voltage across the load resistor R_L of 4Ω .



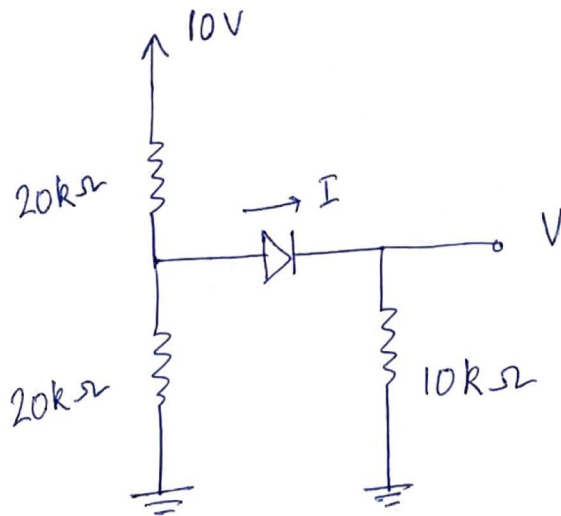
Q2) Using the Thevenin's equivalent circuit, calculate the voltage across the load resistor R_L of 2Ω .



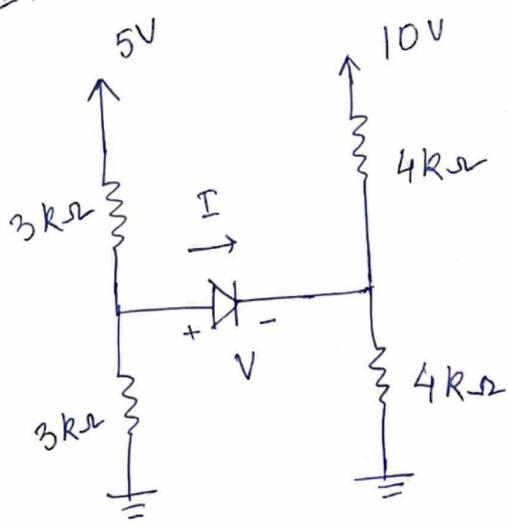
Q3) Using the Thevenin's equivalent circuit, calculate the voltage across the $10k\Omega$ resistor.



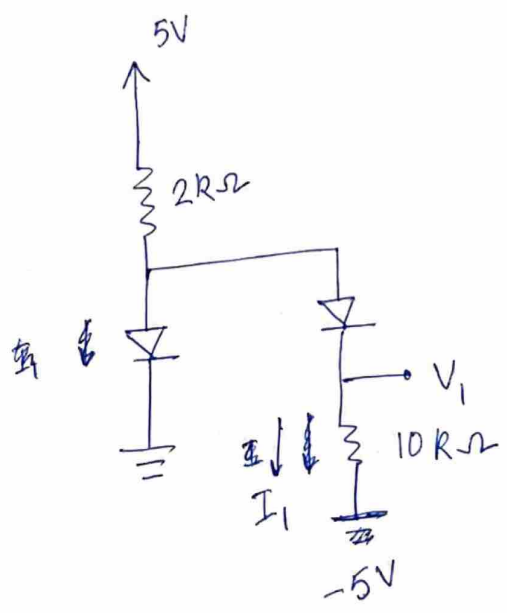
Q4) Assuming the diodes are ideal, use the Thevenin's theorem to simplify the circuit and calculate V & I .



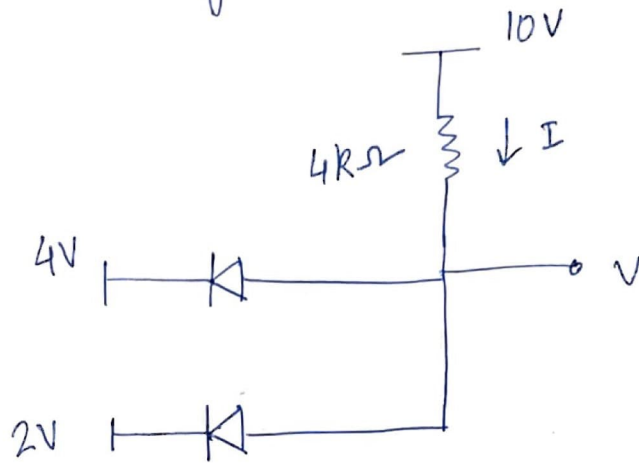
Q 5) Assuming the diode is ideal, apply Thevenin's theorem to simplify the circuit, and calculate V & I .



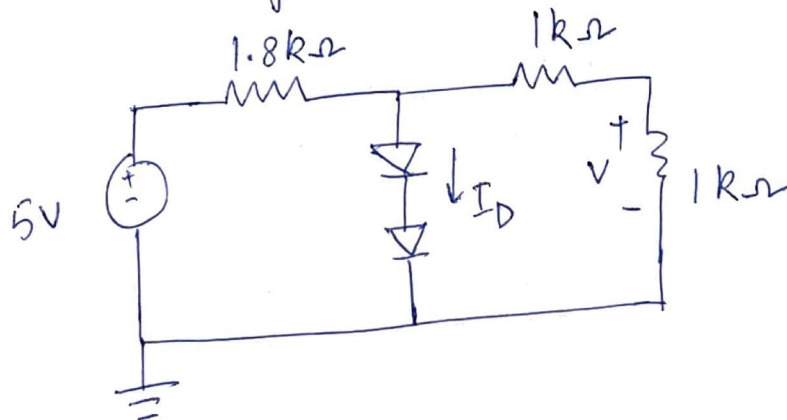
Q 6) Assuming ideal diodes, calculate V_1 & I_1 in the given circuit.



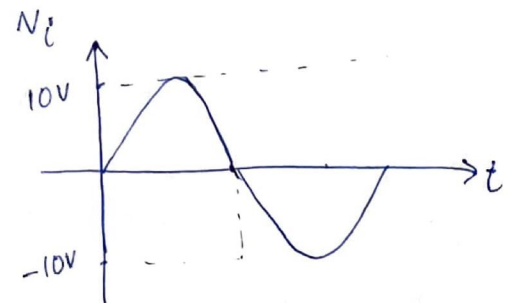
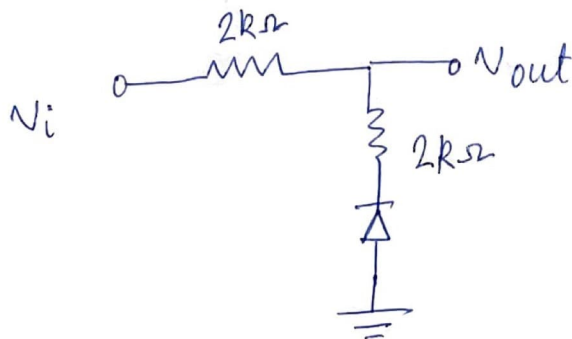
Q7) Assuming ideal diodes, calculate V & I .



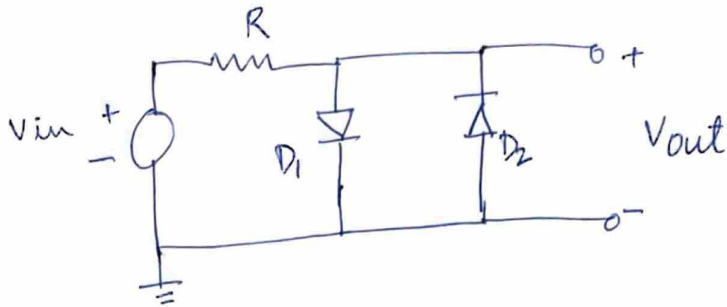
Q8) Assuming real diodes (voltage drop of $0.7V$ in the forward bias region), calculate I_D and V .



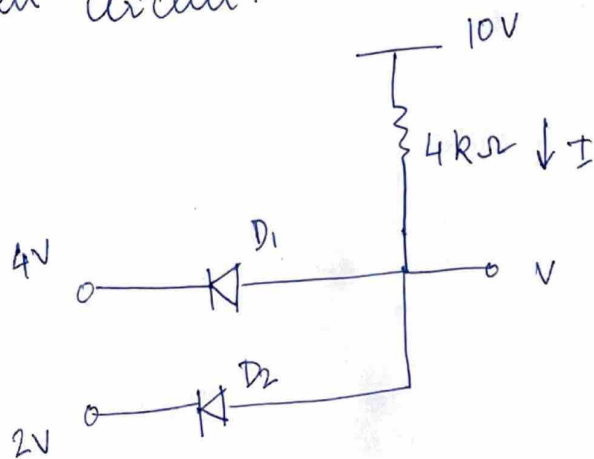
Q9) Assuming ideal diodes, plot V_{out} .



Q10) Assuming real diodes with 0.7V voltage drop in the forward bias region, plot the input output characteristics of the circuit.



Q11) Assuming real diodes, calculate V & I for the given circuit.



Q12) Assuming real diode, calculate V_o & I for the given circuit,

