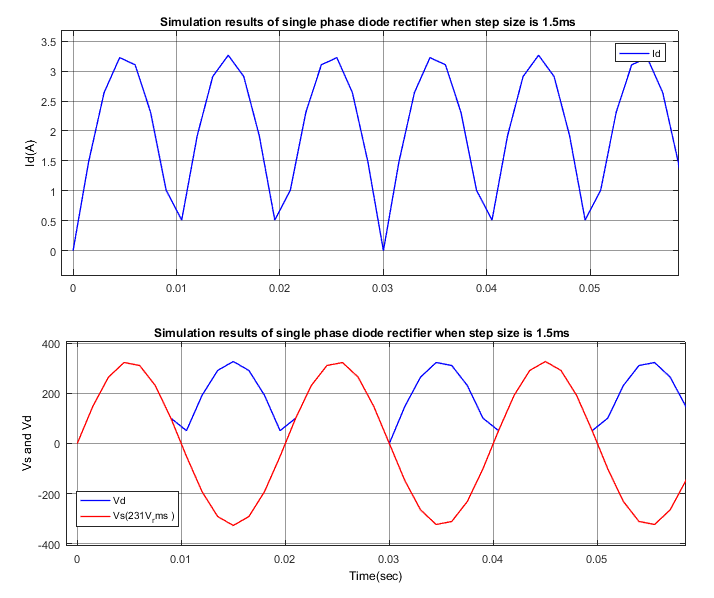
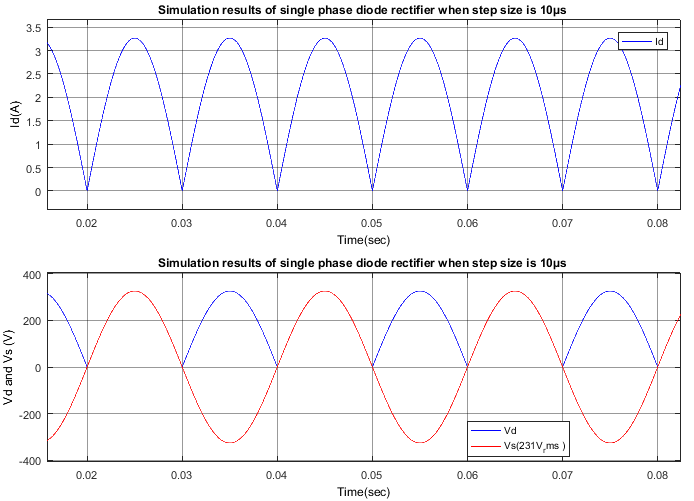
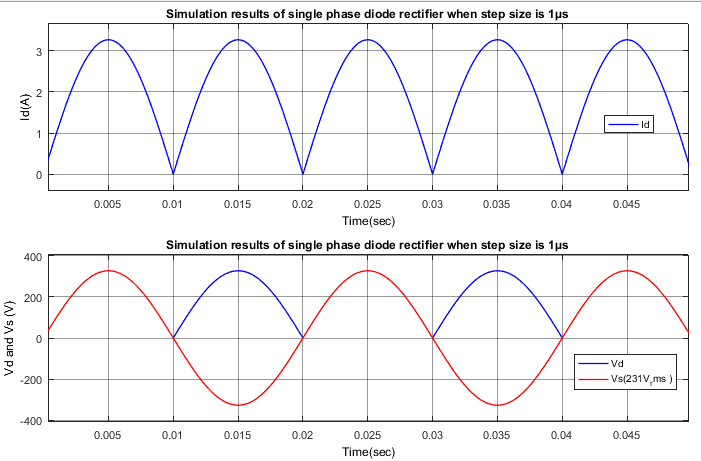
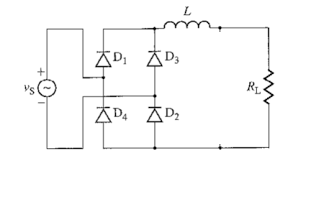
**Q1)** In this question discrete time step calculations in the simulation of a single-phase uncontrolled rectifier that is feeding a resistive load (R=100Ω) is performed. Simulation results with step size 1.5 msec, 10 µsec and 1 µsec can be observed in Figure 1, 2, and 3, respectively.







**Q2.2)**



In the figure when Vs in its positive cycle D1 and D2 is on so the current passing them is equal to Id and voltage drop of them is equal to Von; whereas the voltage drop on D3 and D4 is equal to Vs.

Therefore; for IF(av)