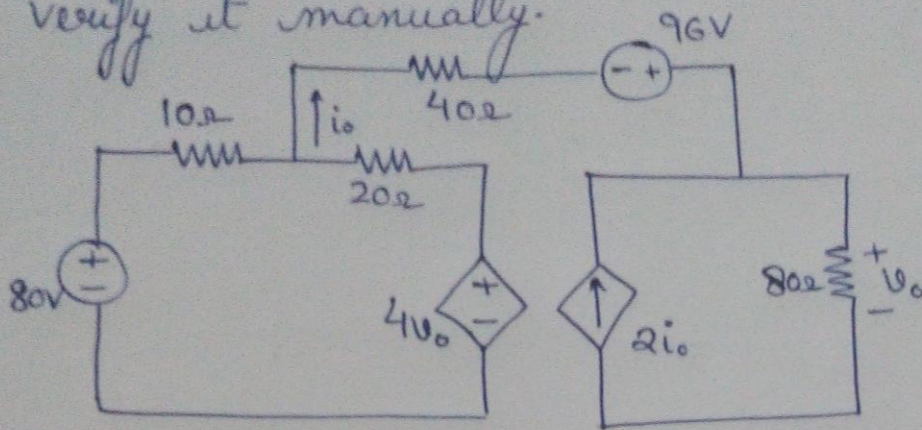
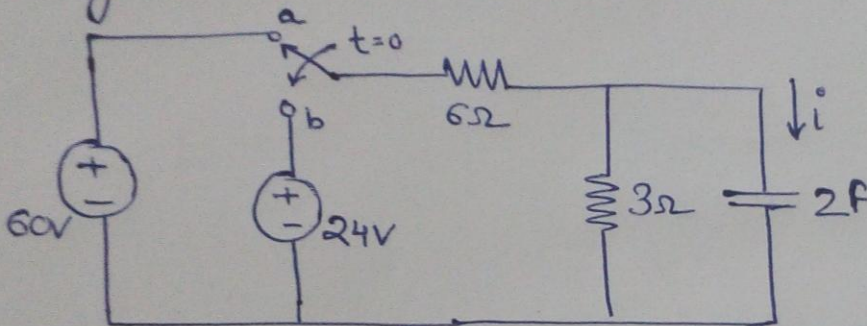


Assignment-1

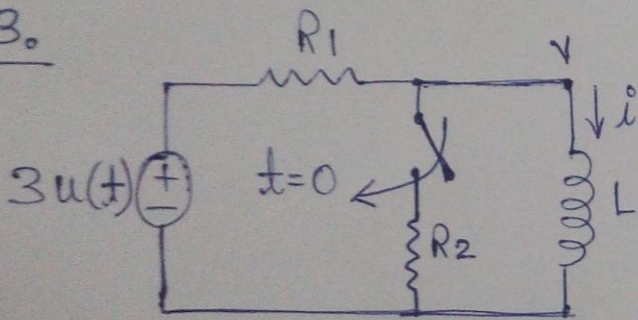
1. Simulate the circuit in LT Spice. Check the results and verify it manually.



2. Simulate the circuit in LT Spice. Verify the results manually and in MATLAB.



3.

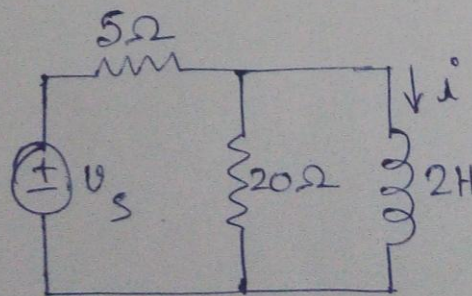
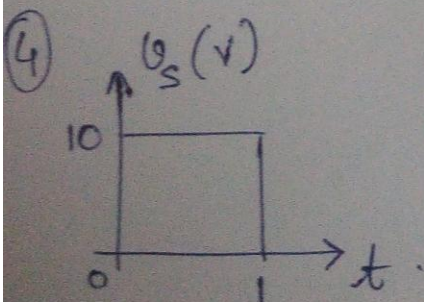


$$R_1 = 10 \text{ k}\Omega$$

$$R_2 = 15 \text{ k}\Omega$$

$$L = 3 \text{ mH}$$

Find $v(t = 1.8 \text{ sec})$



Determine $i(t)$.