Tutorial-1
Winter 2024
Basic Electronics (ECE113)

Problem1: Find potential difference between node A & B ($\mathbf{V_{AB}}$) in Figure-1.

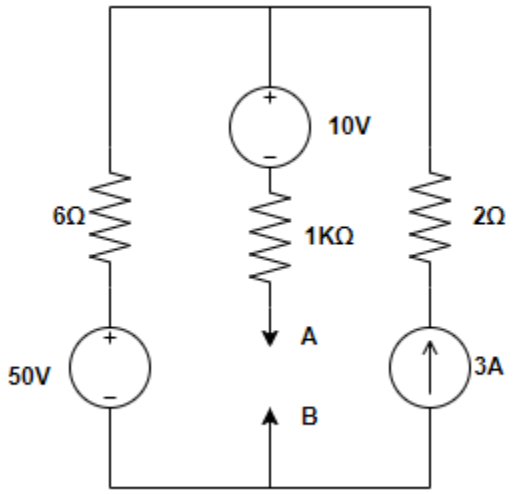

Figure 1

Problem2: Calculate power for each and every elements in the network (in Figure-2), when V_0= 125 volts. Prove that network satisfies the "Conservation of Energy".

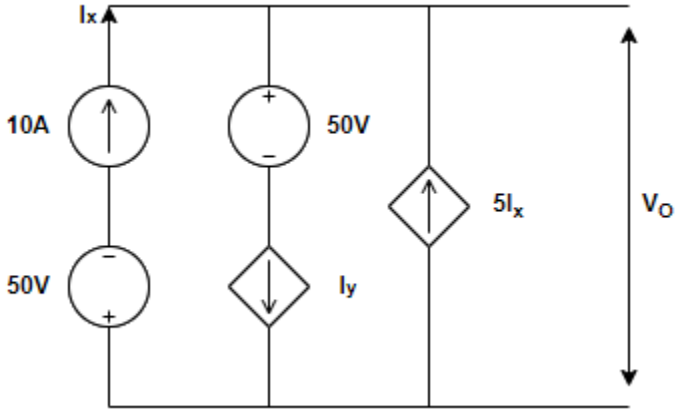

Figure 2

Problem3: Determine total number of primary & secondary nodes, loops, branches, meshes and power absorbed by each resistance of the given following circuit (in Figure-3):

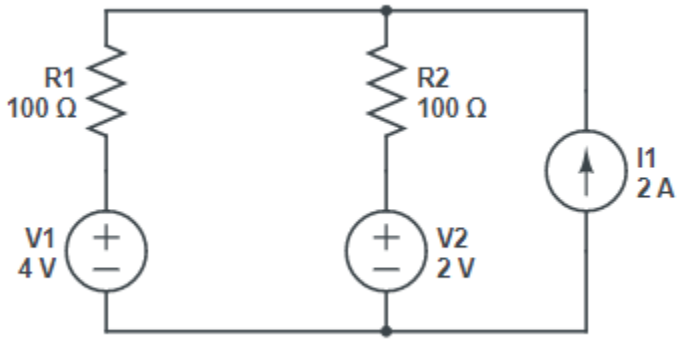

Figure 3

Problem4: Find the current "I_1" of the given following circuit (in Figure-4).

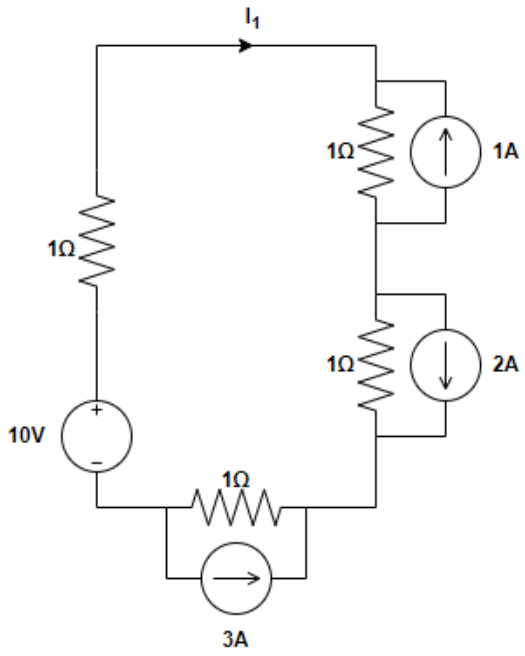

Figure 4

Problem5: Find equivalent resistance with respect to node A & B (in Figure-5).

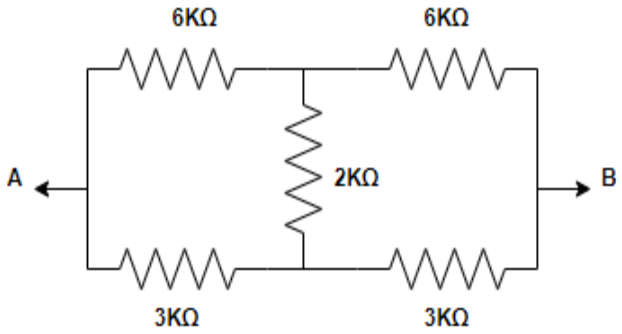

Figure 5

Problem6: Find the value of current **"I"** (in Figure-6).

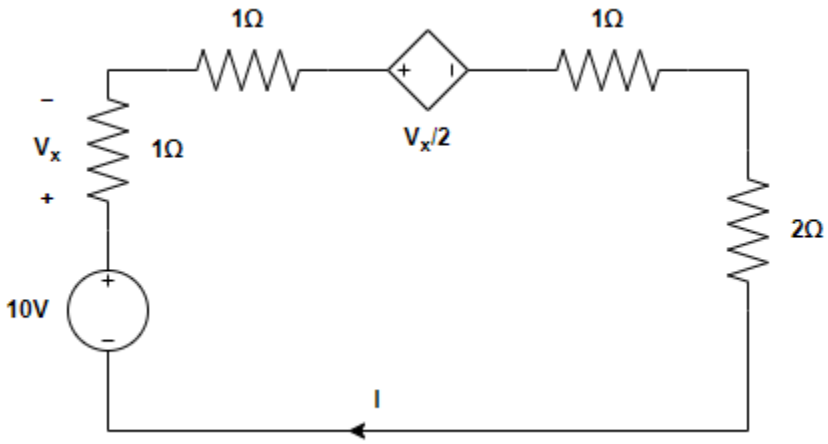

Figure 6