Sheet (1) ... Review DC

1. Convert the current source of Figure (1) into an equivalent voltage source and show the equivalent circuit.

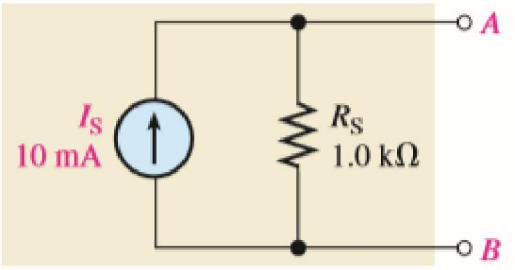

Figure (1)

2. Given the circuit of Figure (2), use Mesh and Nodal theorems to determine current at R_3 and voltage on R_5.

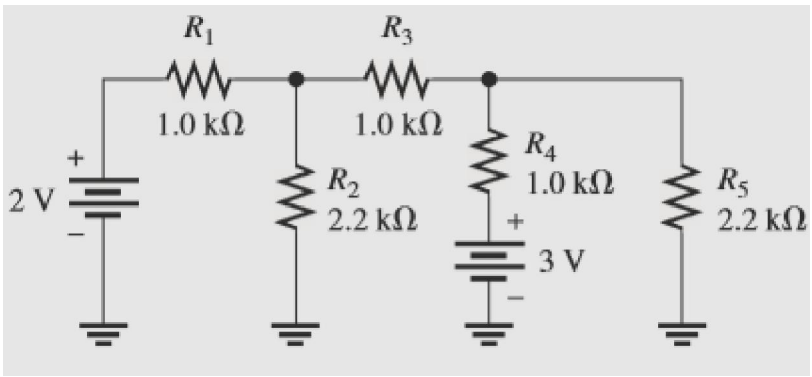

Figure (2)

3. Determine the Thévenin and Norton equivalent circuit external to R_L in the circuit of Figure (3).

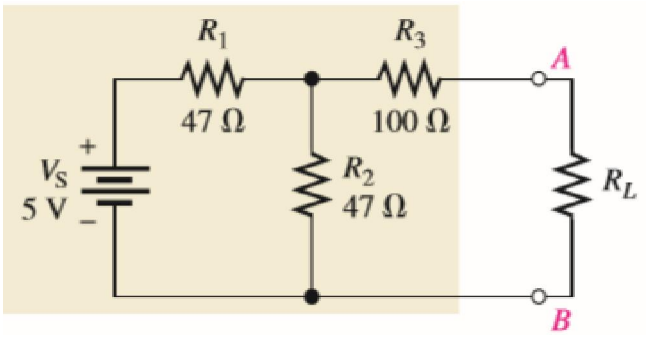

Figure (3)

4. Find I for the circuit shown in Figure (4) by using Δ-Y transformation.

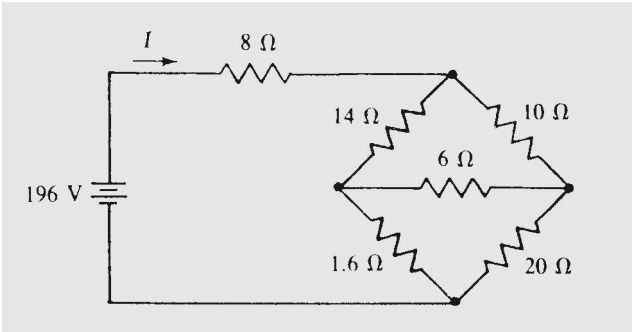

Figure (4)

5. Find the current through each resistance in the circuit shown in Figure (5) by Super Position method.

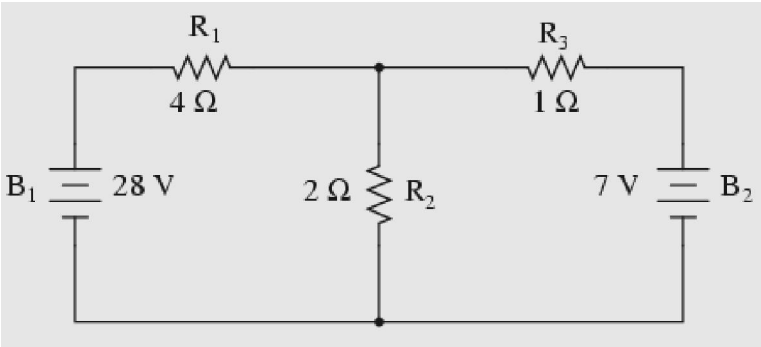

Figure (5)

Good Luck

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