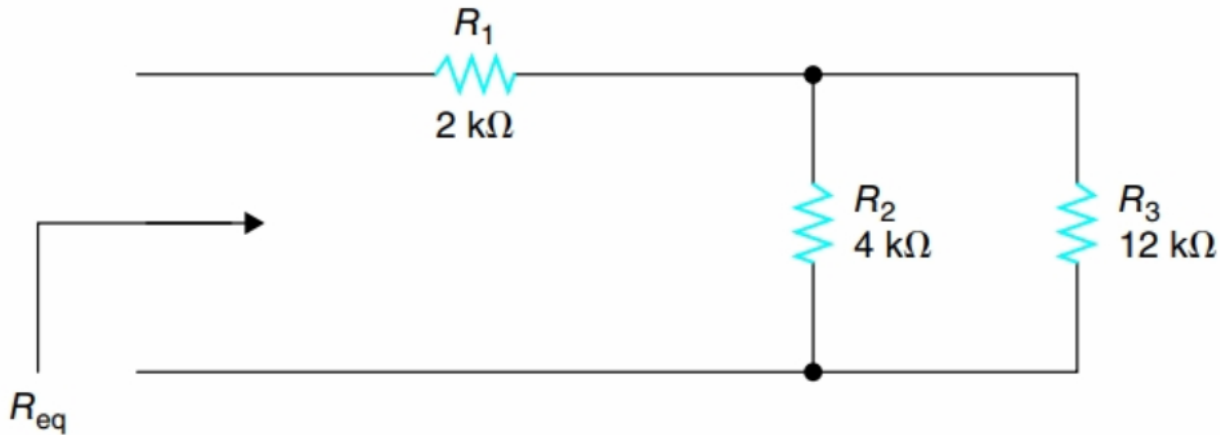# Tutorial 2 for CAD
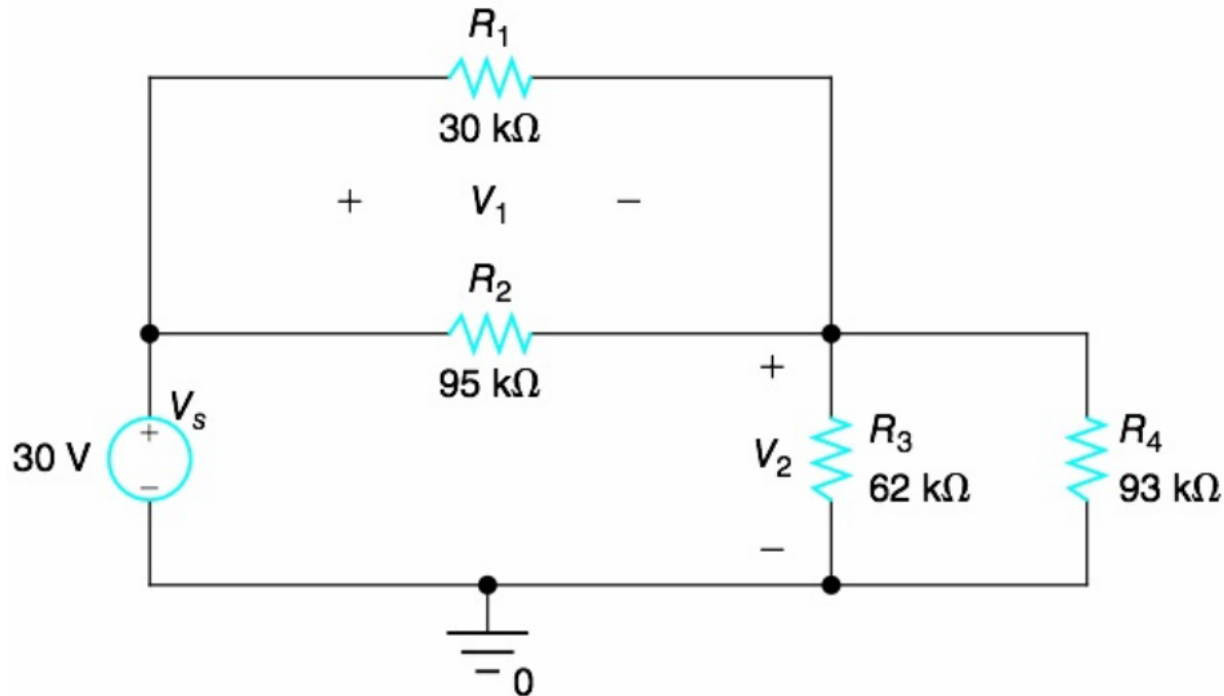# Sample Questions and Exercises

2020-21

1 Equivalent Resistance

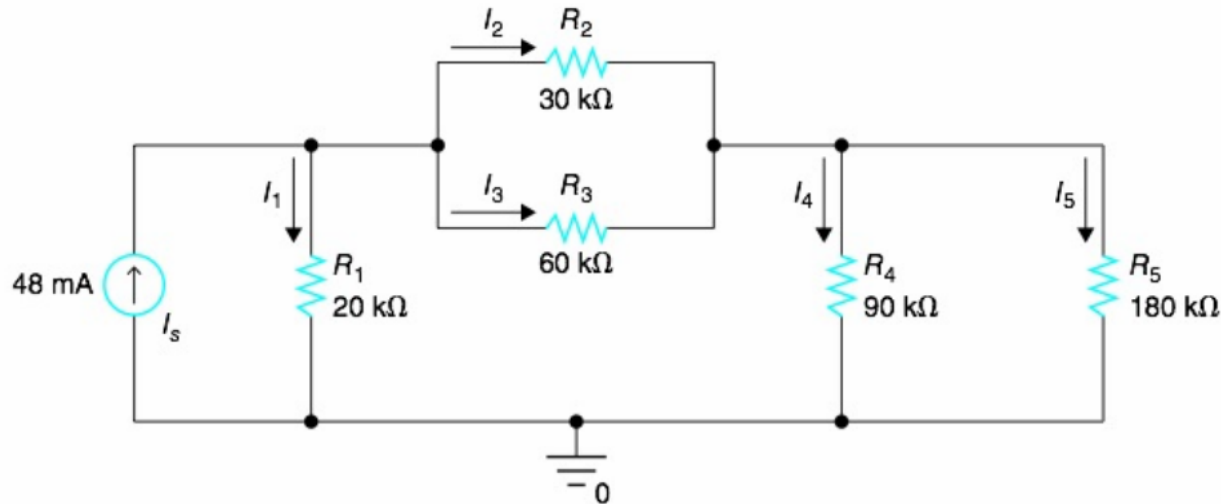- Find the equivalent resistance R$_{eq}$ of the circuit shown below

2 Voltage Divider Rule

- Use the voltage divider rule to find voltage V_1 and V_2 in the circuit shown in the following figure
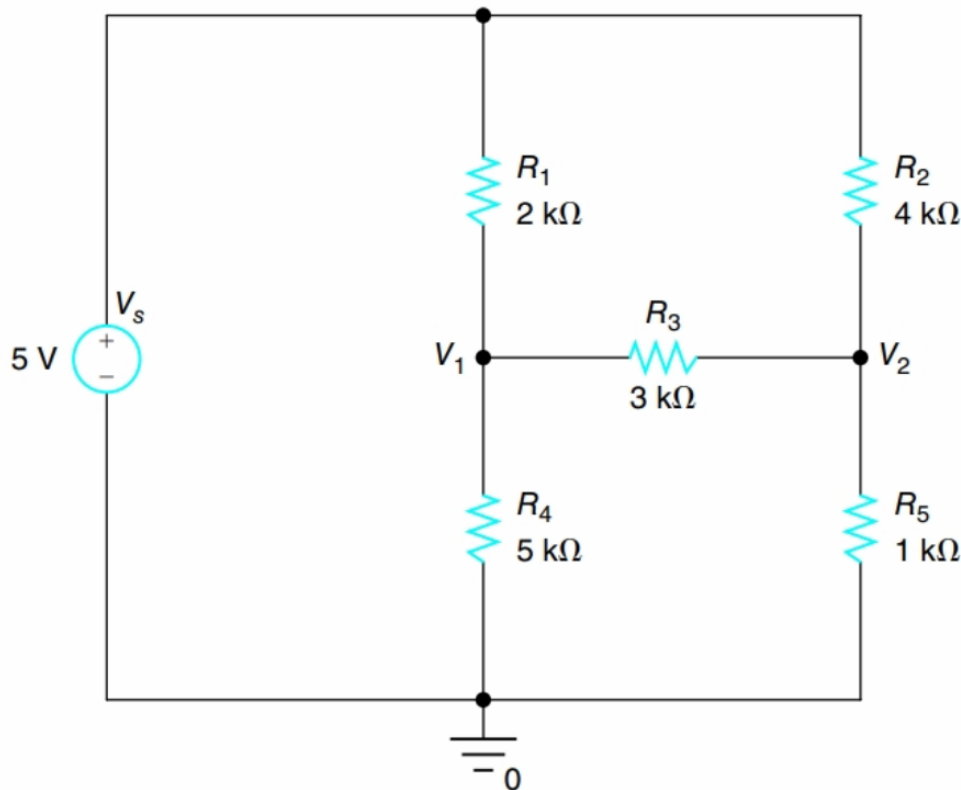
3 Current Divider Rule

- Use the current divider rule to find I_1, I_2, I_3, I_4, and I_5 in the circuit shown below
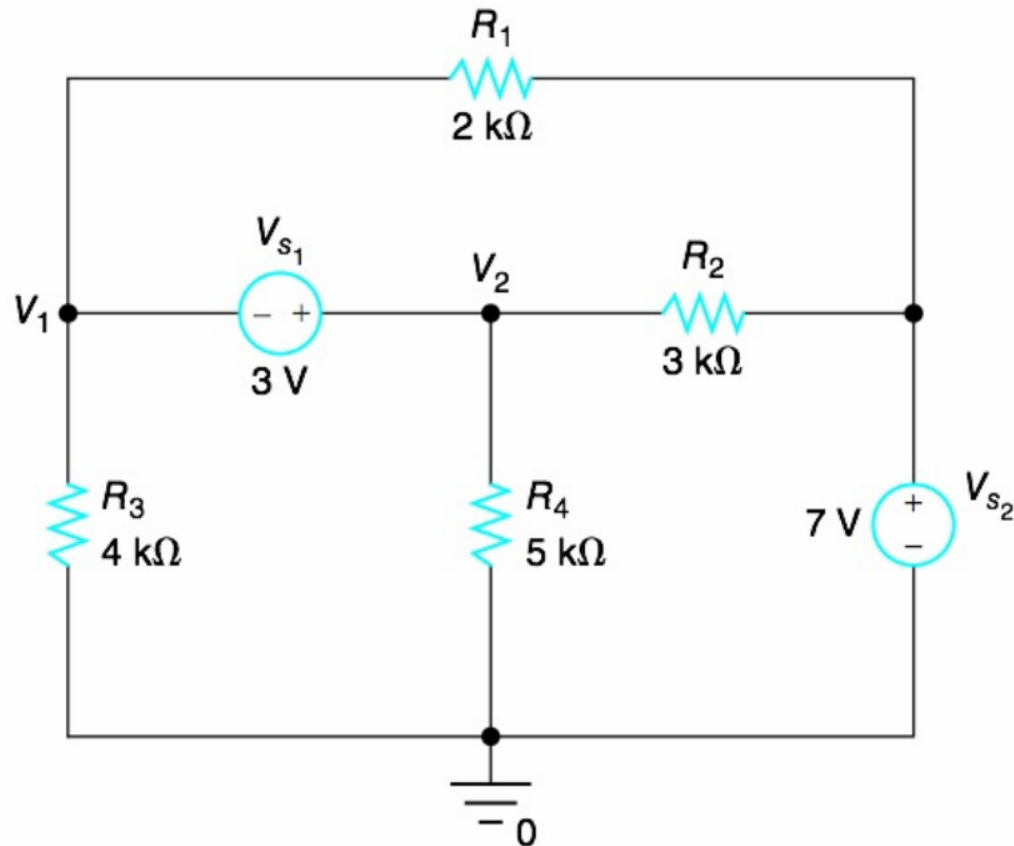
4 Node Analysis

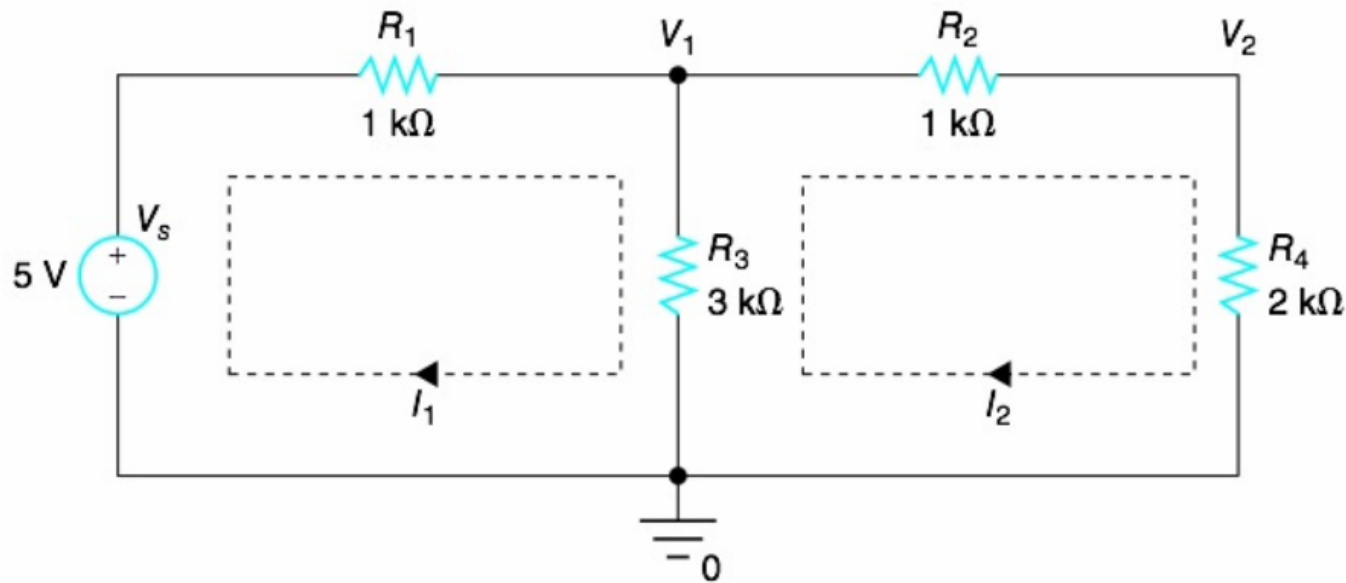- Find the voltage V_1 and V_2 in the circuit shown below

5 Supernode

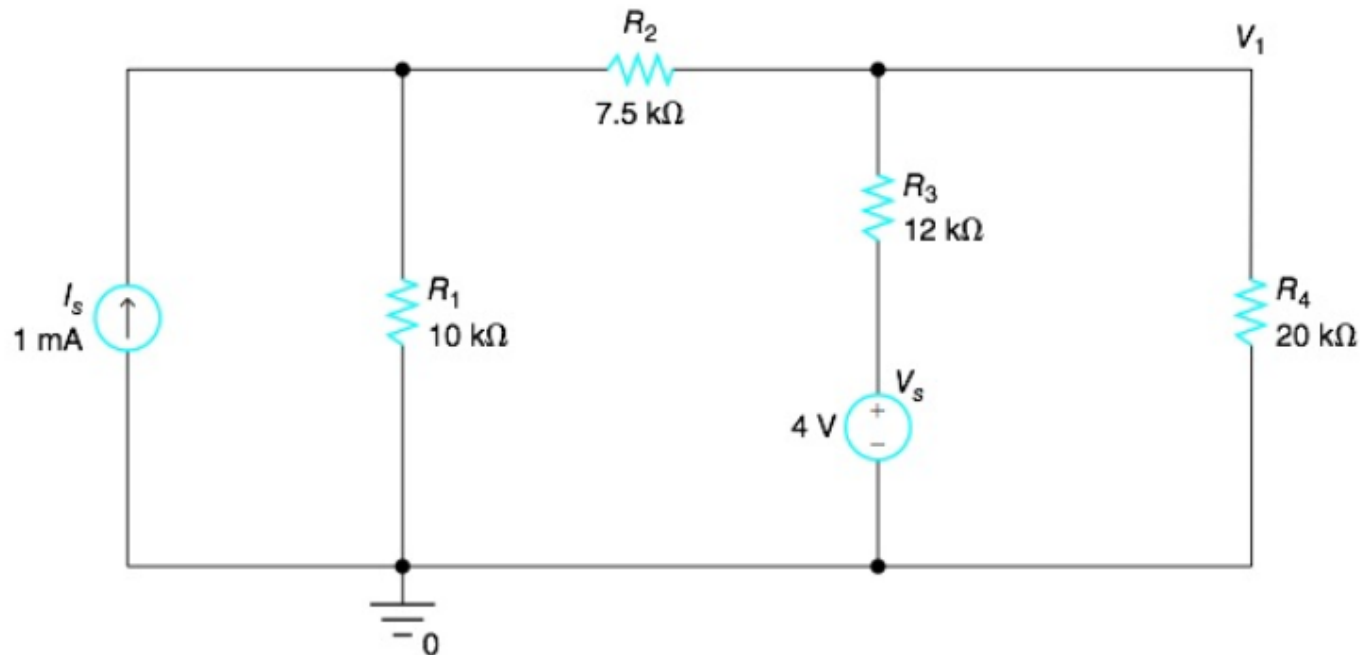- Find the voltage V_1 and V_2 in the circuit shown below

6 Mesh Analysis

- Find mesh currents I1 and I2 and node voltage V1 and V2 in the circuit shown below

7 Superposition Principle

- Use the superposition principle to find voltage V1 in the circuit shown below

8 Source Transformation

- Use source transformation to find voltages V1 and V2 in the circuit shown below