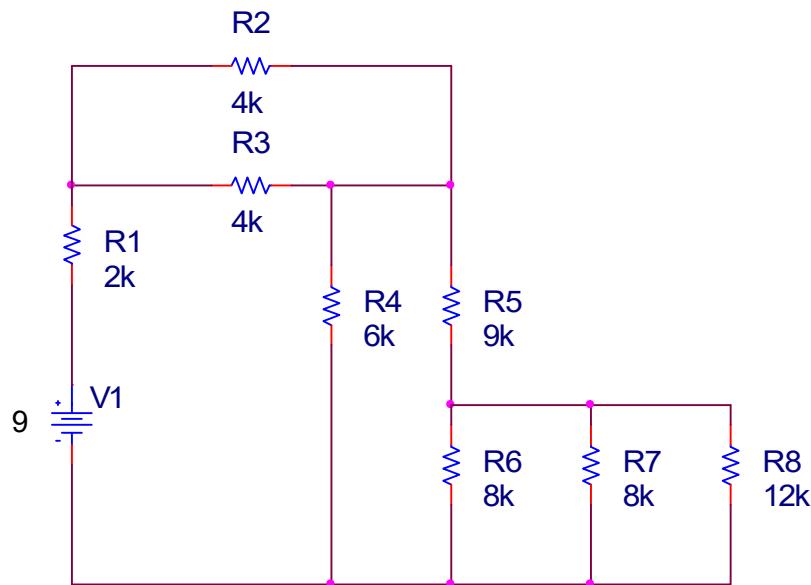
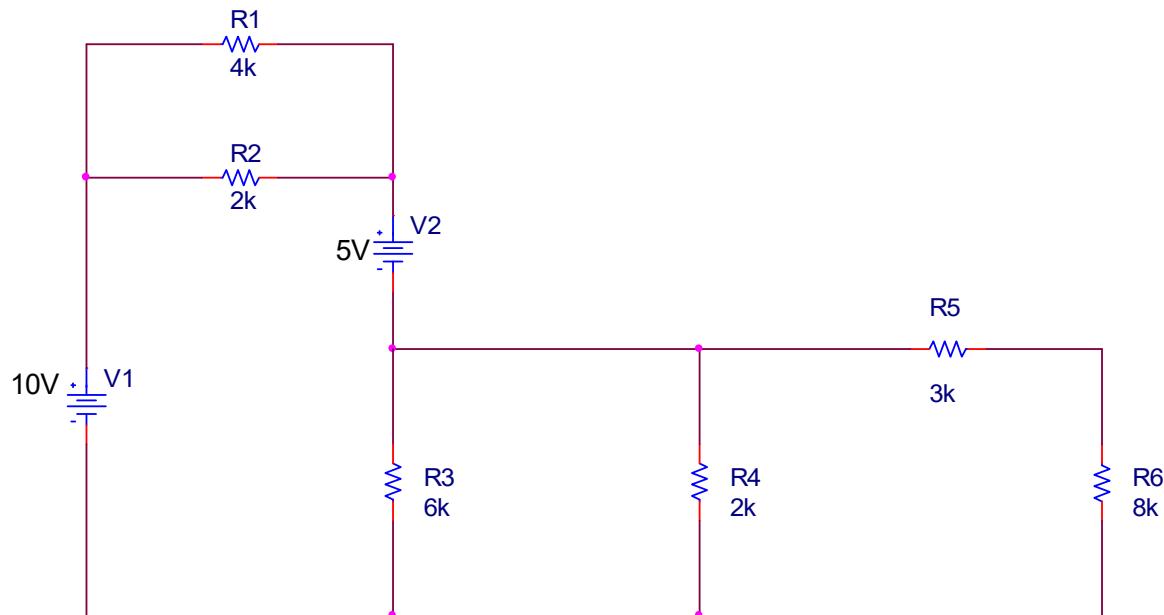


1) Equivalent Circuits/Circuit Reduction

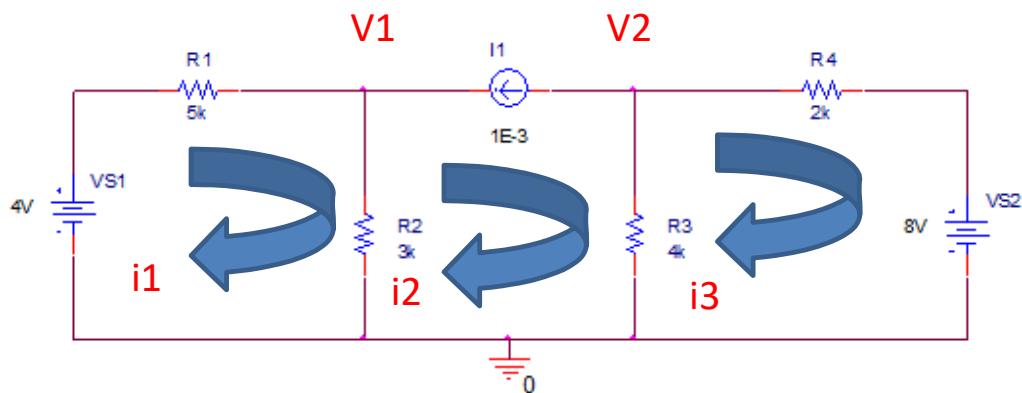
In the above circuit determine:

- The equivalent resistance seen by the voltage source.
- Find the current through the voltage source.
- Find the current through resistor R8.

2) Equivalent Circuit

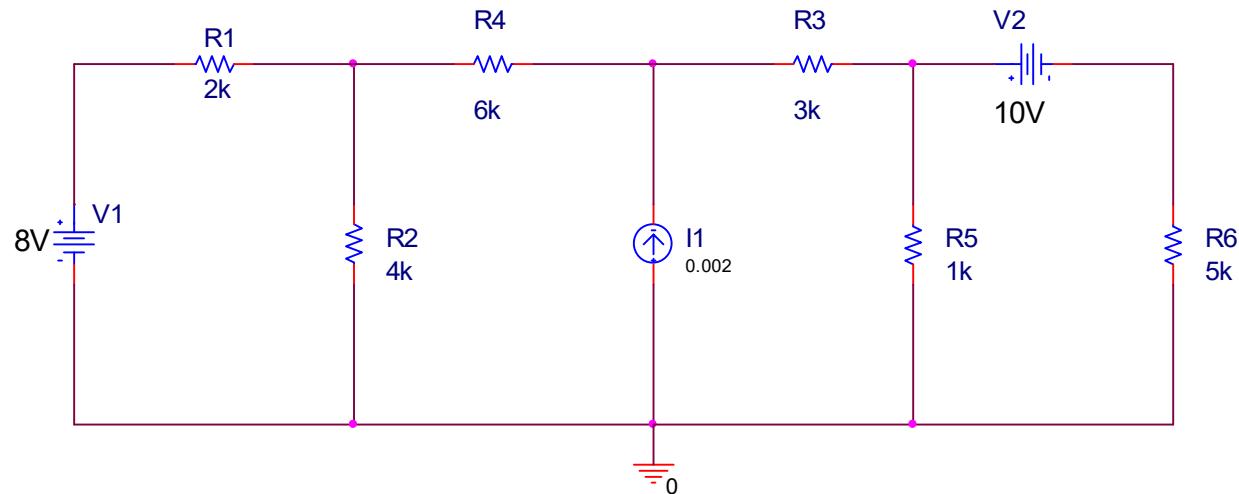
In the above circuit determine:

- An equivalent source (a single voltage source)
- The equivalent resistance seen by the combined voltage source
- The current through the voltage source, V_1
- The current through the resistor R_6

3) Node/Mesh Analysis

a. Apply node analysis to determine $V1$ and $V2$

b. Apply mesh analysis to determine i_1 , i_2 , and i_3

4) Superposition

- Use any method to determine the voltage across R_2 (node, mesh, circuit reduction, source transformation...)
- Find VR_2 using superposition. (For each source, draw the schematic).