Circuit Analysis Techniques

Lecture 13
Tutorial

Lecture delivered by:

Objectives

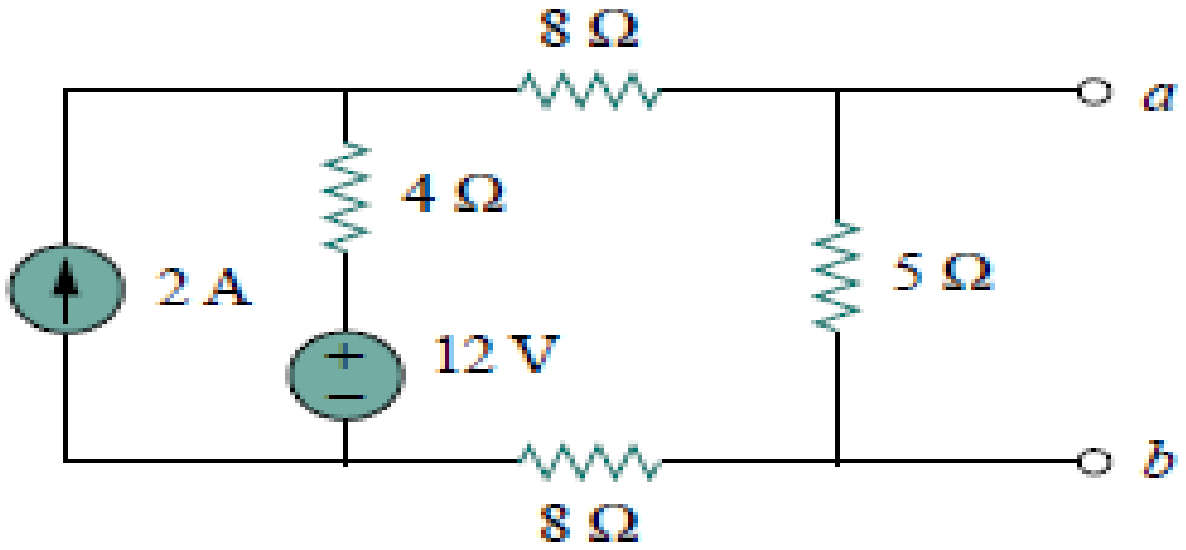
At the end of this lecture, student will be able to:

- Solve problems on Thevenin's Theorem
- Solve problems on Norton's Theorem
- Solve problems on Source transformation

Norton Problems

Problem 1:

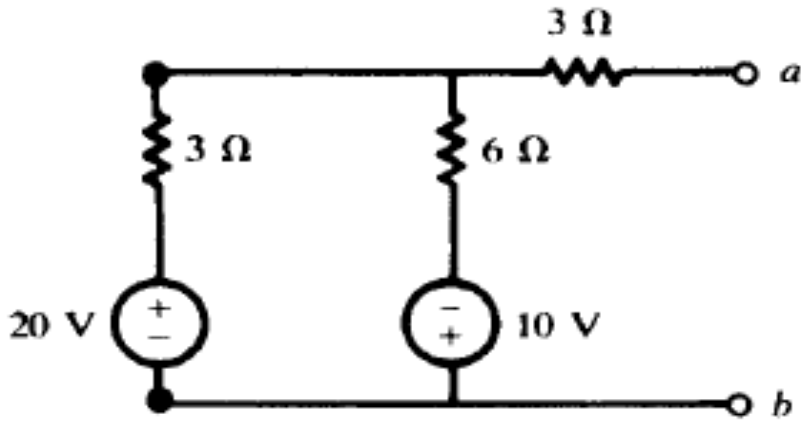
Obtain the Norton equivalent circuit for the given network.



Problems

Problem 2:

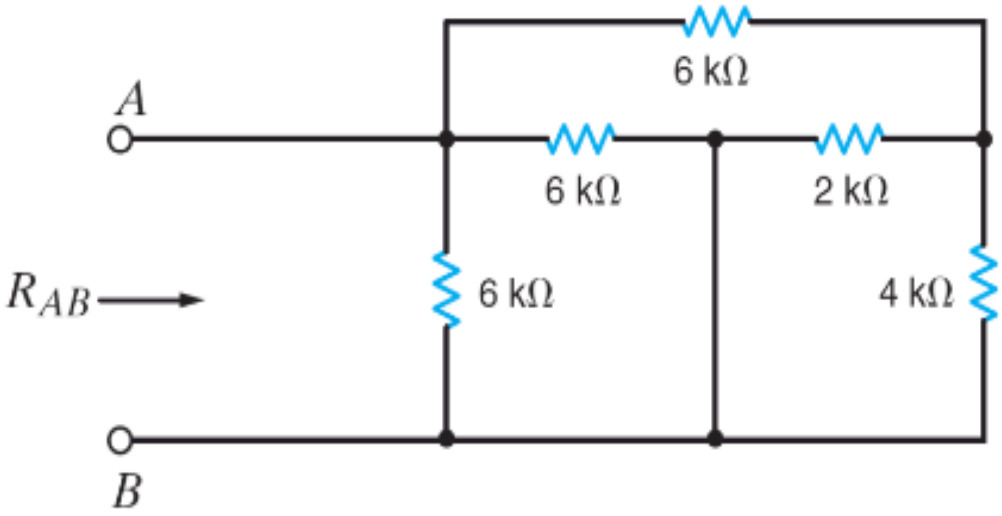
Obtain the Thevenin and Norton equivalent circuits for the given network.



Problems

Problem 3:

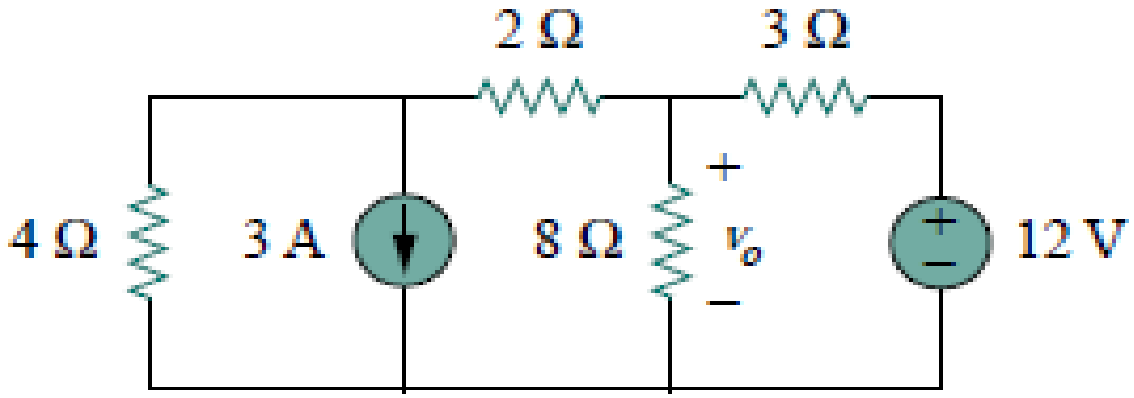
Find the total (equivalent) resistance R_{AB} in the circuit shown in figure



Source transformation

Problem 4:

Use source transformation to find V_o in the given circuit.



Summary

- Understand and be able to use Thevenin's theorem
- Understand and be able to use Norton's theorem
- Understand and be able to use Source transformation Technique