Circuit Analysis Techniques

Lecture 9
Tutorial

Lecture delivered by:

Objectives

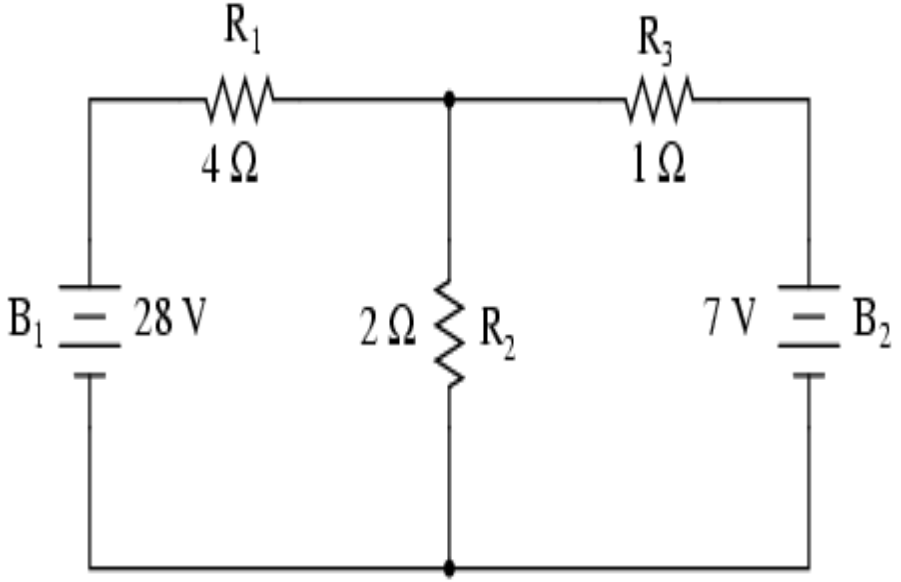
At the end of this lecture, student will be able to:

- Solve problems on Superposition Theorem

Superposition Theorem

Problem 1:

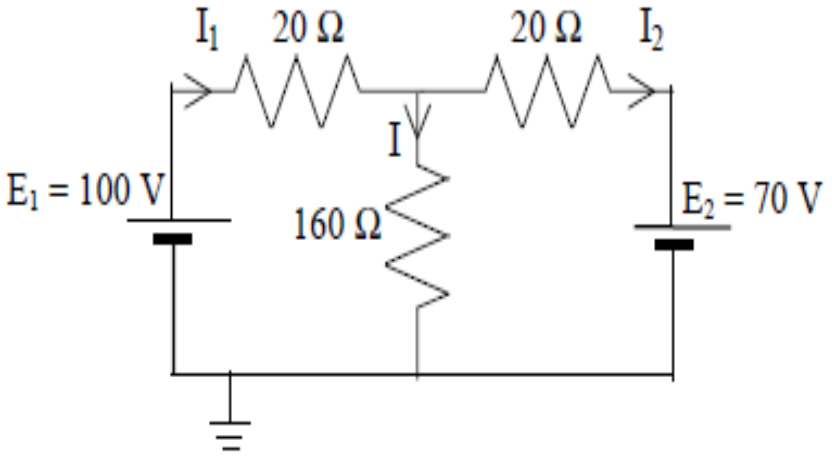
Calculate the current flowing through 2 Ω resistor in the given circuit by applying Superposition theorem.



Superposition Theorem

Example 2:

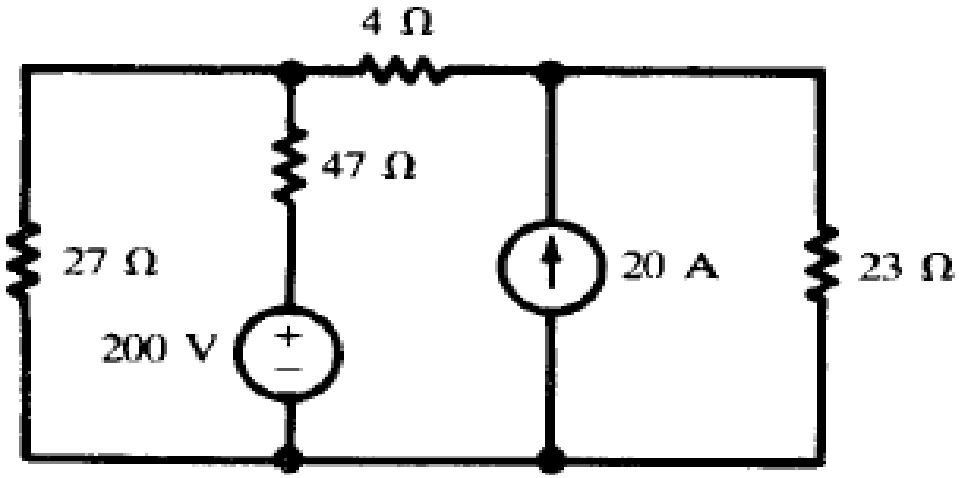
Calculate the current flowing through 2 Ω resistor in the given circuit by applying Superposition theorem.



Superposition Theorem

Problem 3:

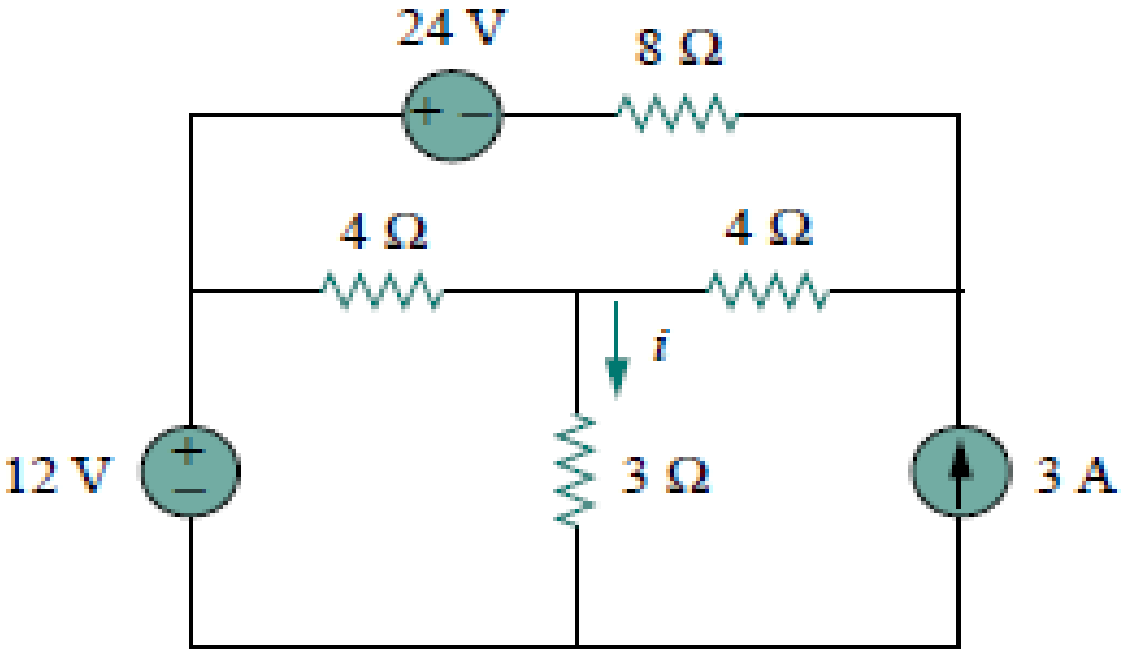
Calculate the current flowing through 23 Ω resistor in the given circuit by applying Superposition theorem.



Superposition Theorem

Problem 4:

Calculate the current flowing through 3 Ω resistor in the given circuit by applying Superposition theorem.



Summary

- Understand and be able to use superposition theorem.