

## **Module I: DC Circuits**

**6 Hrs**

**Basic circuit elements and sources; Ohms law, Kirchhoff's laws; Series and parallel connection of circuit elements; Source transformation; Node voltage analysis; Mesh current analysis; Maximum power transfer theorem**

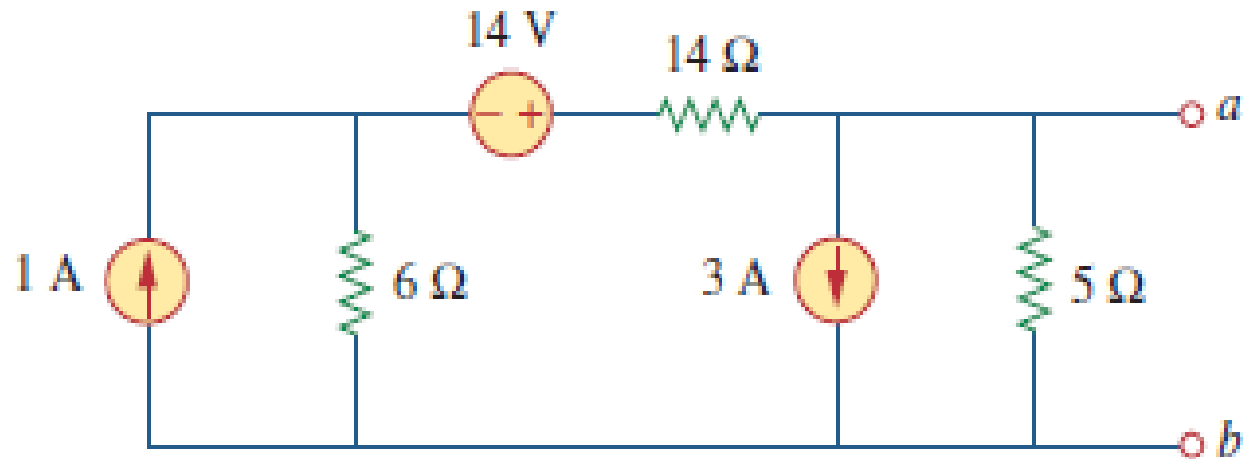
### **CO1:**

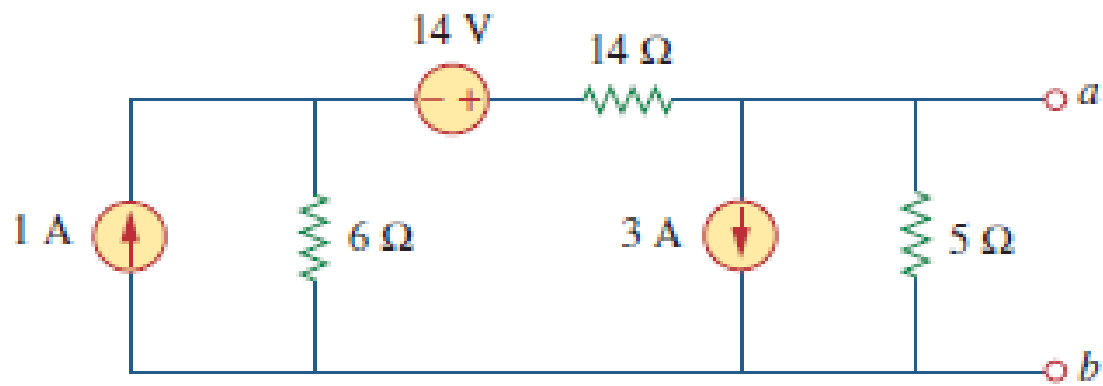
Evaluate DC and AC circuit parameters using various laws and theorems

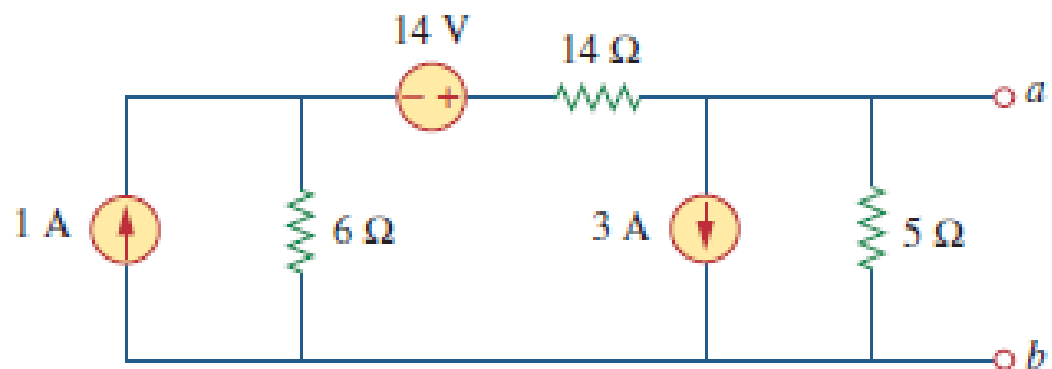
### **Module 1**

Evaluate DC circuit parameters using various laws and theorems

Find the Thevenin's equivalent circuits at terminals a-b of the circuit shown in Fig. and find the maximum power.









Determine  $v_1$  and  $v_2$  using mesh analysis and verify using nodal analysis

