School of Electrical Engineering & Telecommunications

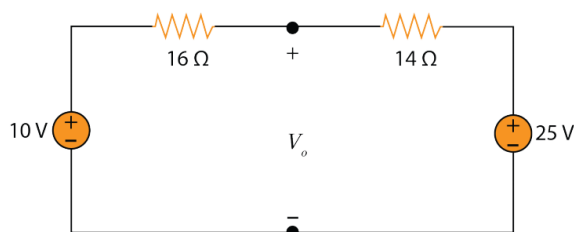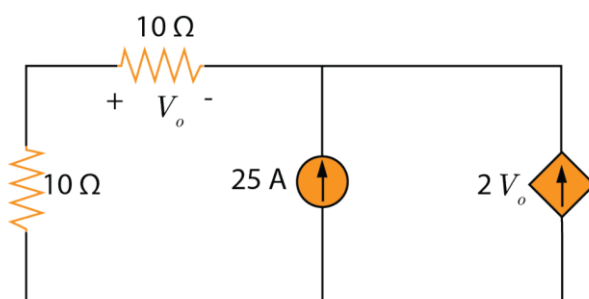# ELEC1111 Online Tutorial

Topic 2 (part 1): Kirchhoff's Laws

1. Determine the voltage v_0 in the following circuit.
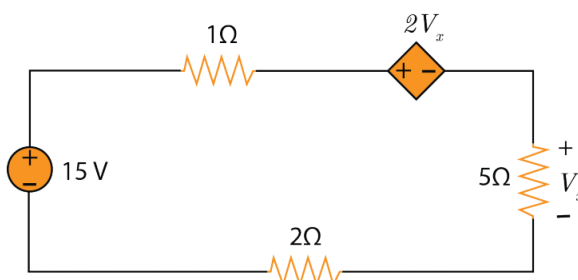

2. In the following circuit:

(a) Calculate the voltage v_0.
(b) Calculate the power supplied/absorbed by the dependent source.

3. Find voltage v_x in the following circuit.

4. Calculate the equivalent resistance R_{ab} between terminals a and b in the following two circuits.

(a)

(b)