

EE 101 Practice Problems 2
(14 August 2014)

- Q 1. For the circuit shown in Figure 1, find V_0 given that 1 A current flows through $1\ \Omega$ resistance as shown.

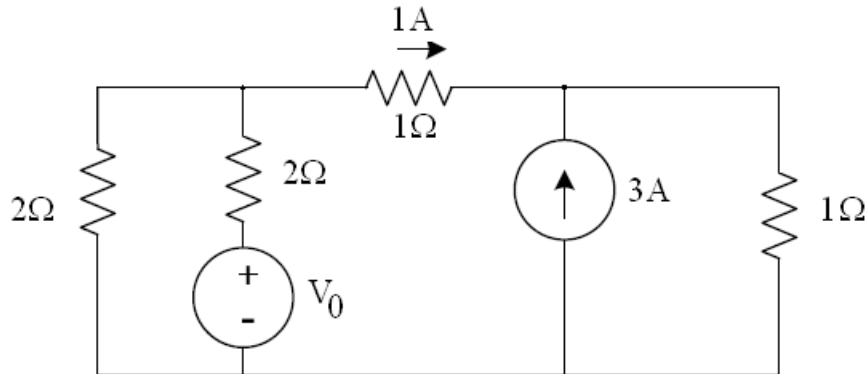


Figure 1

- Q 2. (a) Find the current i in Figure 2 using the principle of superposition.
(b) What is the new value of current i if the 12 V source is replaced by a 24 V with the same polarity?

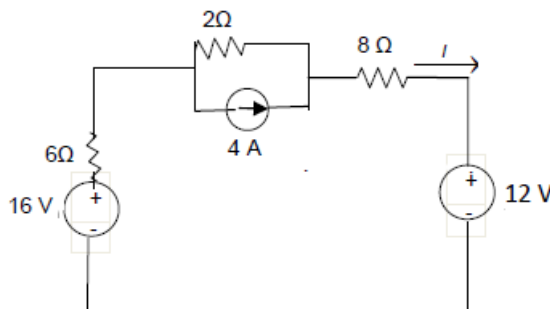


Figure 2

- Q 3. For the circuit shown in Figure 3, find the mesh currents I_1 and I_2 .

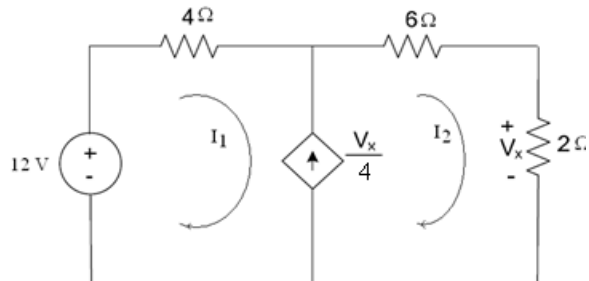


Figure 3