HW 2
posted Monday 2/6/2012
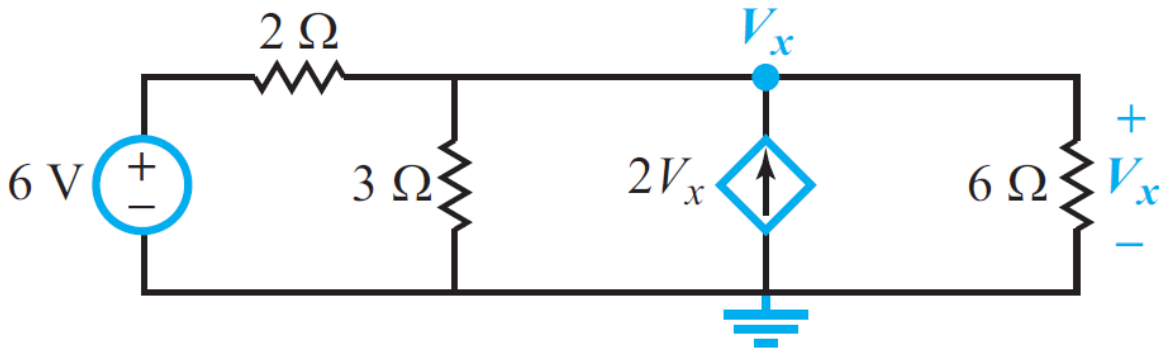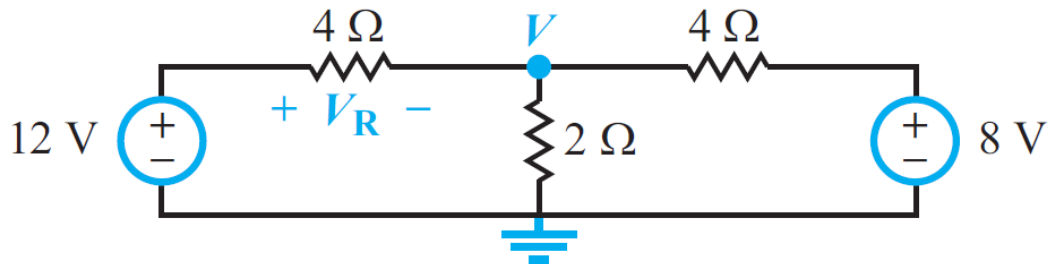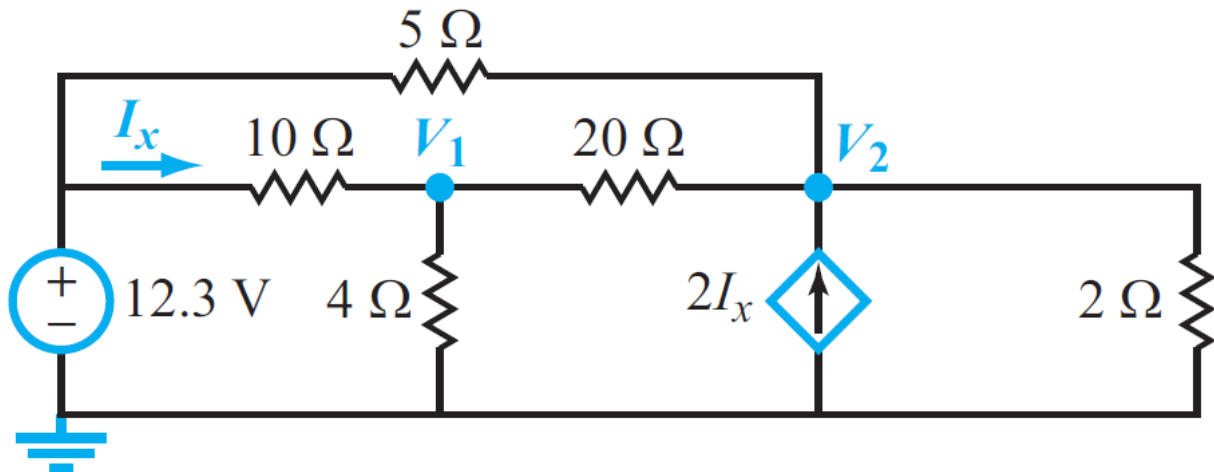*due Monday 2/13/2012*

EE40
Maharbiz
Spring 2012

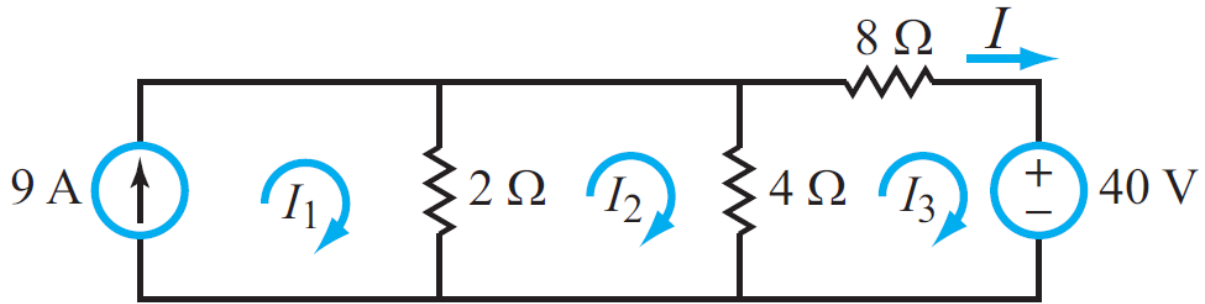1. The circuit below contains a dependent current source. Determine the voltage V_x.

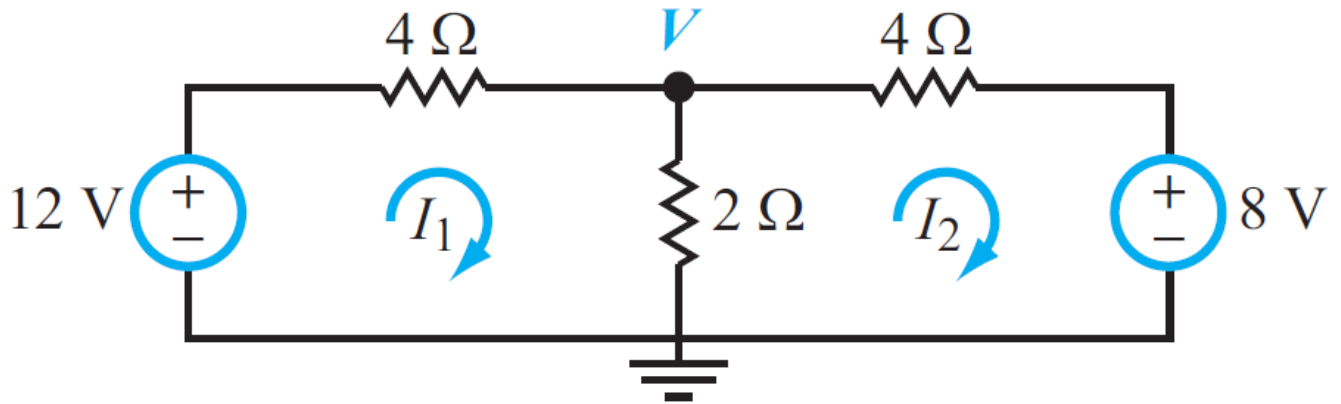2. Apply nodal analysis to determine the voltage V_R in the circuit below.

3. The magnitude of the dependent current source in the circuit below depends on the current I_x flowing through the 10-Ω resistor. Determine I_x.
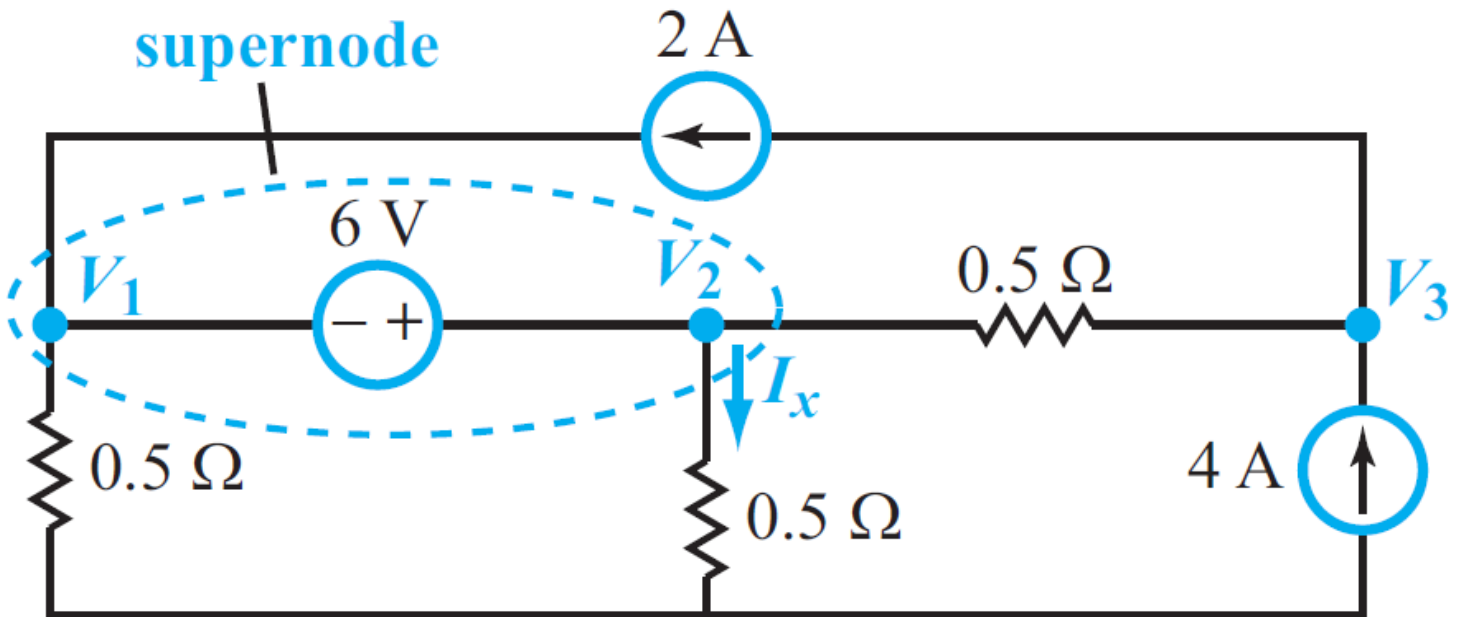
4. Use mesh analysis to determine the amount of power supplied by the voltage source in the circuit below.

5. Determine V in the circuit below using mesh analysis.

6. Use the supernode concept to find the current Ix in the circuit below.

7. Determine V_x in the circuit below.