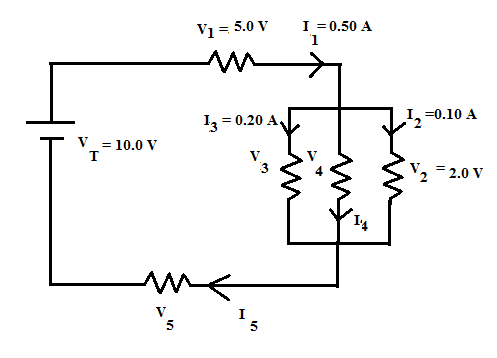
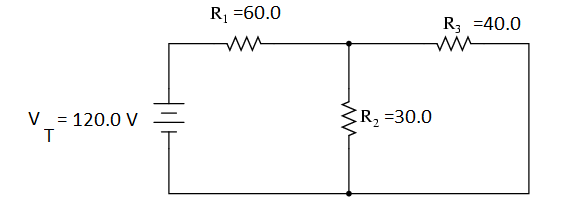
1. Use Kirchoff’s Current and Voltage Laws to determine all unknown currents and voltages in the following circuit. Show your work in the space beside the diagram.

a) I4 = \_\_\_\_\_\_\_ I5 = \_\_\_\_\_\_\_ V3 = \_\_\_\_\_\_\_\_\_\_ V4 = \_\_\_\_\_\_\_\_\_\_\_\_ V5 = \_\_\_\_\_\_\_\_\_



1. Consider the circuit shown below:



a) Solve for the total equivalent resistance in the circuit:

b) Find the total current flowing from the battery.

c) Find the voltage across each resistor and the current through each resistor.

c) Find the electrical power converted by resistor 1.