Chapter 1 Homework:

1. For the circuit below, determine
2. the voltage, V1
3. the resistance, R
4. the current, Is
5. the power (absorbed or supplied) by the current source
6. the power (absorbed or supplied) by the 3V voltage source



1. Find *I1* and *V1* in the circuit below.



1. In the circuit below, determine *vab*, *vac*, and *vcb.*



1. For the circuit shown, find:
2. Vs
3. R1
4. Power absorbed or generated by the 10V source. State whether the power is absorbed or generated.



1. Find *Vab* and *V1* in the circuit below.



1. For the circuit below, determine
2. the power dissipated by the 6Ω resistor
3. the voltage across the 4Ω resistor
4. the current through the 2Ω resistor



1. For the circuit elements below, determine the power generated or absorbed by the element. State whether the power is generated or absorbed.



(a) (b) (c) (d)

1. For the circuit below, determine
2. the power dissipated by the 6Ω resistor
3. the voltage across the 3Ω resistor
4. the current through the 4Ω resistor



1. For the circuit elements below, determine the power generated or absorbed by the element. State whether the power is generated or absorbed.



(a) (b) (c) (d)

1. In the circuit below, determine *vab*, *vac*, and *vcb.*



1. In the circuit below, determine the power (absorbed or generated) by the voltage source VS.



1. For the circuit shown, find:
2. V1
3. R1
4. The power (generated or absorbed) by the 1A source



1. For the circuit shown, find:
2. VS
3. R
4. The power (generated or absorbed) by the 2A source



1. Write a set of equations from which you can determine the current *V1* in the circuit below. You do not need to solve the equations.



1. For the circuit below, determine the voltage *vx*, the voltage *vab*, and the power (generated or absorbed) by the 3A source.



1. For the circuit shown, find the voltage *vx* and the current *i4*.

