- 1. During a lightning flash, -15C of charge moves through a potential difference of 8.0×10^7 V. How much electrical potential energy is released?
- 2. A spark of electricity jumps from a person's finger to a doorknob. While passing through the air, the spark travels across 2.0×10^4 V and releases 3.0×10^{-7} J of electrical potential energy. How much charge in coulombs and how many electrons flow?
- 3. Problem 1.9
- 4. Compute the power absorbed by each resistor in problem 1.9. By conservation of power, how much power is being absorbed by the voltage source?
- 5. Problem 1.12
- 6. Problem 1.14