

**Homework Set #1****Textbook:** Chapter 1.1-1.3**Coverage:** Introduction to ECE, SI units, overview**DUE Friday, March 10, 2017**

1. A 1.5 kW electric coffeemaker takes 4 minutes to make a pot of coffee. If this is done three times a day and power costs 12 ¢/kWh, what is the cost of its operation for 365 days? (answer: slightly over \$13/yr.)
2. Problem 1.1 (*answer in back of book*)
3. Problem 1.15 (*answer: between 21½ & 22 kJ*)
  - a. Which car has the dead battery?
  - b. If this connection is maintained for 1 min, how much energy is transferred to the dead battery?

