You’ve Got the Power

1. What is the power when a voltage of 120 V drives a 2‐A current through a device?

2. What is the current when a 60‐W lamp is connected to 120 V?

3. How much current does a 100‐W lamp draw when connected to 120 V?

4. How many volts does a 6W device use when connected to a 3A current?

5. One deterrent to burglary is to leave your front porch light on all the time. If your fixture

contains a 60‐W bulb at 120 V and your local power utility sells energy at 8 cents per

kilowatt‐hour, how much will it cost to leave the bulb on for the whole month? Show your

work on the other side of this page. (1 KW=1 000W)