Homework Set 5

Solutions to these problems are due at the start of lecture on May 7. Get started on them right away. Page references refer to our text. A good way to understand any problem is to explain it to someone else. Try it!

1. Page 699, Question 2.
2. Page 699, Question 3.
5. Page 700, Problem 4. That’s a wire 20 km long!
8. Page 703, Problem 37. How many gauss is this? [One answer: 0.11 Tesla]
9. Page 704, Problem 47. [Answer: about 1.4 volts]
10. Suppose you have an enclosed transformer that has four wire leads coming from it. How could you determine the ratio of turns on the two coils without taking the transformer apart? How would you know which wires paired with which?