DUE: THURSDAY FEBRUARY 18, 2010

MIDTERM ALERT: The second midterm exam will take place from 10—11 am on Tuesday February 23, 2010 in the Physical Sciences Building, Room 110 (our usual classroom). The exam will cover material from homework sets #3, #4 and #5, and include material from Boas, Chapter 11 and sections 1–3 and 6–9 of Chapter 3. During the exam, you may consult Boas, your class notes (and any other handwritten notes), and any of the homework solutions and class handouts that are posted on the course website.

To receive full credit for the following problems, you must exhibit the intermediate steps that lead you to your final results. The nth problem in Boas from section $a.b$ is designated by $a.b$–n.

1. Boas, p. 95, problem 3.3–2.

2. Boas, p. 95, problem 3.3–6.

3. Boas, p. 95, problem 3.3–10.

4. Boas, p. 96, problem 3.3–18.

5. Boas, p. 123, problem 3.6–17.

6. Boas, p. 123, problem 3.6–21.

7. Boas, p. 123, problem 3.6–29.

8. Boas, p. 123, problem 3.6–32.

9. Boas, p. 131, problem 3.7–27.

10. Boas, p. 135, problem 3.8–2.

11. Boas, p. 136, problem 3.8–17.

12. Boas, p. 141, problem 3.9–10.