*DUE: TUESDAY FEBRUARY 22, 2011*

*MIDTERM ALERT:* The second midterm exam will take place from 12 noon–1 pm on Thursday February 24, 2011 in the Physical Sciences Building, Room 110 (our usual classroom). The exam will cover material from homework sets #4, #5, #6 and #7, and include material from Boas, Chapters 3 (sections 1–9) and 11 (all sections). 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, you must exhibit the intermediate steps that lead you to your final results.

1. Boas, p. 95, problem 3.3–10.

2. Boas, p. 96, problem 3.3–15.

3. Boas, p. 123, problem 3.6–16.

4. Boas, p. 123, problem 3.6–21.

5. Boas, p. 123, problem 3.6–32.

6. Boas, p. 131, problem 3.7–27.

7. Boas, p. 132, problem 3.7–34.

8. Boas, p. 135, problem 3.8–2.

9. Boas, p. 136, problem 3.8–18.

10. Boas, p. 137, problem 3.8–24.

11. Boas, p. 141, problem 3.9–4.

12. Boas, p. 141, problem 3.9–10.