MIDTERM ALERT: The midterm exam will take place from 1:30–3:05 pm on Tuesday November 5, 2019 in Thimann Lecture Hall 001 (our usual classroom). The exam will cover material from homework sets #1, #2 , #3, #4 and #5 and include material from Boas, Chapters 1 and 2 (all sections) and Chapter 3 (Sections 1–3). 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.

DUE: Thursday OCTOBER 31, 2019

To receive full credit, you must exhibit the intermediate steps that lead you to your final results. You can check any of your answers by computer, but this is not required.

1. Boas, p. 88, problem 3.2–13.

2. Boas, p. 88, problem 3.2–14.

3. Boas, p. 88, problem 3.2–18.

4. Boas, p. 95, problem 3.3–2.

5. Boas, p. 95, problem 3.3–6.

6. Boas, p. 95, problem 3.3–10.

7. Boas, p. 96, problem 3.3–15.

8. After reviewing section 4 in Chapter 3 of Boas, solve Boas, p. 105, problem 3.4–23.

9. After reviewing section 5 in Chapter 3 of Boas, solve Boas, p. 112, problem 3.5–17.

10. Boas, p. 122, problem 3.6–6.

11. Boas, p. 122, problem 3.6–7.

12. Boas, p. 123, problem 3.6–10.