Physics 116C **Homework Set #8** **Fall 2011**

DUE: TUESDAY November 29, 2011

To receive full credit, you must exhibit the intermediate steps that lead you to your final results.

1. Boas, p. 734, problem 15.3–9

2. Boas, p. 736, problem 15.3–18(a) and (b)

3. Boas, p. 736, problem 15.3–22

4. Boas, p. 743, problem 15.4–9

5. Boas, p. 743, problem 15.4–10

6. Boas, p. 744, problem 15.4–13

7. Boas, p. 744, problem 15.4–22

8. Boas, p. 749, problem 15.5–7. Be sure to read the preamble at the beginning of the Section 5 problems. At the end of your analysis, check your result for σ by employing the result of problem 15.5–16 on p. 750 of Boas.

9. Boas, p. 749, problem 15.5–8

10. Boas, p. 749, problem 15.5–9

11. Boas, p. 754, problem 15.6–2

12. Boas, p. 755, problem 15.6–6