Physics 505   Electricity and Magnetism   Fall 2003

Prof. G. Raithel

Problem Set 3

Due date: Tuesday, September 30, 6PM

Note: Problems will be collected and graded. You may bring your homeworks to class or drop them in my mailbox in front of the Physics Department office by 6PM. No late homework will be considered.

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1. Jackson, Problem 2.7

2. Jackson, Problem 2.8

3. Jackson, Problem 2.9

4. Jackson, Problem 2.10

5. Jackson, Problem 2.30. You may read Problem 1.21, 1.24, 2.15, 2.16, and use any relevant information given in these problems. In the comparison part of the problem, it is only required to compare the result of the finite-element method with the exact result.