

# Physics 110B. Electricity and Magnetism. Professor Dine

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Spring, 2008. Homework Set 1. Due Tuesday, April 15.

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**Problem numbers refer to your textbook.**

1. From the handout on vectors, exercises g,j.
2. From the handout on vectors, exercise l (use the index notation, i.e. use  $x_i$  and the summation convention; don't write x,y,z separately).
3. 8-5
4. 8-9
5. 8-12 **We will probably not derive the formula for the angular momentum in class, and you do not need to derive it here, but you should at least read the derivation in the text**
6. 8-14