

Homework February 24, 706, Spring 2011, due: March 4

Note that the problem numbering for chapter 2 is different in the new edition, Sakurai and Napolitano, as compared to the old edition by Sakurai!

- 1) Problem 1 of chapter 2 of Sakurai and Napolitano.
- 2) Problem 3 of chapter 2 of Sakurai and Napolitano.
- 3) Problem 4 of chapter 2 of Sakurai and Napolitano In this problem, explain your derivation of Eq. (2.1.65) very carefully, including an explanation of any approximations you may make. I will take off points if the answers are correct, but the derivations are not clear!
- 4) Problem 12 of chapter 2 of Sakurai and Napolitano. [Hint: use the result of problem 30 of chapter 1.]