

Homework February 26, 706, Spring 2009, due: March 5

- 1) Problem 1 of chapter 2 of Sakurai.
- 2) Problem 3 of chapter 2 of Sakurai.
- 3) Problem 8 of chapter 2 of Sakurai. Since the hamiltonian of the system, H , only involves the states $|a'\rangle$ and $|a''\rangle$, this is really a problem with a two-dimensional Hilbert space.
- 4) Problem 11 of chapter 2 of Sakurai. [Hint: use the result of problem 30 of chapter 1.]