

**Homework February 17, 706, Spring 2011, due: February 25**

- 1) Problem 27 of chapter 1 of Sakurai.
- 2) Problem 30 of chapter 1 of Sakurai. Hint for part (a): act with the commutator  $[x_i, T(\vec{\ell})]$  on  $|\vec{x}\rangle$ .