Homework #5  
(due Wednesday, October 25, 2017)

1. (10 pts) Sakurai 1.31.

2. (10 pts) Sakurai 1.21. Comment on your result.

3. (20 pts) Sakurai 1.27.

4. (20 pts) Sakurai 1.33.

5. (20 pts) Consider a Gaussian wave packet. Find expectation values of $X^2$ and $P^2$ using two approaches (i.e. expressing the states in terms of p-basis and x-basis), similar to what we did in class in the case of $<P>$.

6. Reading assignment: Sakurai 1.6.