Homework Assignment #5  
Due date: Monday, October 15, 2018

1. Reed, Chapter 4, 4-3 
2. Reed, Chapter 4, 4-5 
3. Reed, Chapter 4, 4-8, Is the uncertainty principle satisfied? 
4. Reed, Chapter 4, 4-10, Hints: It may help to sketch $V(x)$. Also, see example 4.4 in textbook. 
5. Reed, Chapter 4, 4-14 
6. Reed, Chapter 4, 4-18 
7. Reed, Chapter 4, 4-21, Hint: See examples 4.6 and 4.7 in textbook.

Again, a general warning: Beware that the answers in the back of the book may have typos and are sometimes wrong.