Homework Assignment #4
Due date: Wednesday, October 9, 2019 (NOTE DATE!)

1. Chapter 3, Problem 3-14
   • Hint: use equation (3.4.11) from Section 3.4 in the text book, as well as the answer from problem 3-12 from last week’s homework. And note that there are two even-parity and two odd-parity bound states.
   • Please comment on your results. Do you notice a pattern?

2. Chapter 3, Problem 3-17

   • In addition, in order to receive full credit, please sketch V(x).
   • Hint: You may want to consider doing a change of variables similar to what we did in class, e.g. $y = x/A$.

4. Chapter 3, Problem 3-23

5. Chapter 3, Problem 3-28