Problem Set #6

Due Friday, April 25 by 5pm to Dickinson 104

Unless otherwise indicated, all problems come from "Quantum Physics: A Fundamental Approach to Modern Physics"

1. Problem 4.3
2. Problem 4.4
3. Problem 4.5
4. Problem 4.10 (*Hint: Think carefully what the boundary condition at x=0 means for allowed solutions to the half harmonic oscillator. There is close-to-zero math that you need to do to solve this problem.*)
5. Problem 4.12 (*Hint: You may want to go back and review Section 3.1 in the book for how we incorporate time dependence.)*
6. Problem 4.14, part (a) only