Quantum Mechanics, Physics 531 Homework Assignment 2, due February 16, 2009

Problem 1. Problem 1.7.

Problem 2. Problem 1.14.

Problem 3. Problem 1.17, but consider the following wave function:

$$\Psi(x,0) = \begin{cases} A\cos\frac{\pi x}{2a}, & |x| < a; \\ 0, & \text{otherwise.} \end{cases}$$

Problem 4. Problem 1.18.

Problem 5. Problem 2.22.