## 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:

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

Problem 4. Problem 1.18.
Problem 5. Problem 2.22.

