Phys 512 Quantum Mechanics II Prof. P. Berman Winter, 2004

Problem Set 8 Due Friday, March 12

1. Problem 96.

2. Problem 97.

3. Problem 105.

4. Problem 108.

5. Calculate the ground state energy of hydrogen variationally using a trial radial wave function of the form $R^t = e^{-\alpha r^2}$. How close is your answer to the exact value?