

Physics 323, Section 1, Fall Semester 2019

Instructor: Lance Nelson

Exam #1

Oct 11 – Oct 17

Exam 1 - Summary of Topics

This exam has five questions: 2 mathematical questions, 1 numerical question, and 2 conceptual questions. These questions will assess your ability and understanding in the following areas:

1. Wavefunction Normalization
2. Expectation Values
3. Orthonormal Basis Sets
4. Dirac notation
5. Using a basis to numerically solve the time-independent Schrodinger equation.
6. Conceptual understanding of electronic states in a periodic(infinitely repeating) potential.