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physics 215 quantum mechanics 1 assignment 2 logan a. morrison january 20, 2016 problem 1 calculate  $\hbar^2$  and  $p^2$  on the gaussian wave packet whose ...

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Physics 8.04, Quantum Physics 1, Spring 2016 3.6. Virial Theorem and applications [15 points] (a) Consider any time independent operator  $\hat{O}$  and the time derivative of its expectation value

### Quantum Physics I, Assignment 10 - MIT OpenCourseWare

Physics 8.04, Quantum Physics 1, Spring 2016 3.3. Scattering off a step and a wall [10 points] Consider the potential  $V(x) = 0$ , for  $0 < x < a$ ,  $V(x) = V_0$  for  $x > a$

### Quantum Physics I, Assignment 9 - MIT OpenCourseWare

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Quantum Physics II (8.05) Fall 2004 Assignment 12 Massachusetts Institute of Technology Physics Department Due FRIDAY December 3, 2004 November 23, 2004 7pm This week we tackle the problem of combining the angular momentum of different parts of a system (eg. spin and orbital angular momentum) into the total angular momentum.

### Quantum Physics II (8.05) Fall 2004 Assignment 12

Physics 215 Quantum Mechanics 1 Assignment 1 Logan A. Morrison January 19, 2016 Problem 1 Prove via the dual correspondence definition that the hermitian conjugate of  $\langle j | i \rangle$  is  $\langle i | j \rangle$ .

### Physics 215 Quantum Mechanics 1 Assignment 1

Logan A. Morrison Assignment 6 Problem 2 Page 4 / 14 Problem 2 Consider a particle of mass  $m$  in a one-dimensional infinite square well with a small delta-function barrier added in the middle. Take the width of the well to be  $2a$ , with the well centered at  $x = 0$ , and the amplitude of the delta function barrier to be  $\delta(x) = \frac{1}{2a} \delta(x)$ . Answer the first two parts before doing any calculations.

### Physics 218 Quantum Mechanics I Assignment 6

PHYS 234, Fall 2008 Assignment 9 3. The wave function for a particle is  $\psi(x;t) = \sin(kx)[\cos(\omega t) + \sin(\omega t)]$  where  $k$  and  $\omega$  are constants. a) Is this particle in a state of definite momentum? If so, determine the momentum. b) Is this particle in a state of definite energy? If so, determine the energy.

**PHYS 234: Quantum Physics 1 (Fall 2008) Assignment 9**

Chapter 1 The basics of quantum mechanics 1.1 Why quantum mechanics is necessary for describing molecular properties we know that all molecules are made of atoms which, in turn, contain nu-

**Chapter 1 The basics of quantum mechanics**

PHYS 234: Quantum Physics 1 (Fall 2008) Assignment 8 Issued: November 7, 2008 Due: 12.00pm, November 14, 2008 1. A time dependent two level system ... values obtained stem purely from quantum physics and have no classical analogue. (a) Consider an electron whose position is somewhere inside an atom of diameter  $1 \text{ \AA}$ . What

**PHYS 234: Quantum Physics 1 (Fall 2008) Assignment 8**

2. Clebsch-Gordan Coefficients for  $\ell = 1$  and  $s = 1/2$ . (12 points) Consider a spin 1/2 particle in a state with orbital angular momentum  $\ell = 1$ . The aim of this problem is to calculate the Clebsch-Gordan coefficients that allow us to construct states of definite total angular momentum  $J$  from simultaneous eigenstates of spin and orbital angular momentum.

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