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2004, 7:30 a.m.- 9:30 a.m. No other materials allowed. If you can't do one part of a problem, solve  
subsequent parts in terms of unknown answer { define clearly. If you don't know a formula { ask, I might  
be able to help. All parts 10 pts., max=120. Problem 1 required, attempt 2 of remaining 3 problems ...

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Multiple Choice: Consider two quantum wavefunction solutions to the time-dependent Schrodinger  
equation for a particle,  $\psi_1(x, t)$ , and  $\psi_2(x, t)$ . We are given that both  $\psi_1(x, t)$  and  $\psi_2...$

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Physics 215 Home Page

The course is intended for graduate students in physics who have already had an introductory course in Modern Physics and Quantum Mechanics, at the level of the texts: Introduction to Quantum Mechanics,

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by David J. Griffiths, Prentice-Hall, Inc. (1995); Quantum Physics: Atoms, Molecules, Solids, Nuclei and Particles, by Robert Eisberg and Robert Resnick.

Quantum Mechanics-I, KSU Physics 811

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given information tells us that  $j = c + j + zi + c j zi$ , with  $j^2 = -1$  and  $j^3 = -j$ . We can use our global phase freedom to set  $c$  to be real and positive (other choices are also possible),  $c = q$ . We are ...

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PC4130 Quantum Mechanics III AY09/10 Exam Solutions 2 Question II (1) IJK, MN =  $\square$  2O  $\square$  P Q  $R \sin PR U V W J R N X R = 2O W V \square P Q R Y \& Z P R [V X R = 2O W V \square P \setminus] \square R P \cos PR^{\wedge} V [+Q \cos PR P [V X R_ = 2O W V \square P \setminus \square P \cos P^{\wedge} + a \sin PR P b V [_ = 2O W V \square P 2 1 P \sin PR \square \cos P^{\wedge} 3 X c X \square = IJK, MN] = 4O W V \square P f P f 2 1 P \sin PR \square \cos P^{\wedge} 3$  Question II (2) The optical theorem is a general law of wave scattering ...

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\_\_\_\_\_ 1. Consider an electron bound to a two-dimensional infinite quantum well with sides of length  $a$  and  $b$ . a. Write down the time-independent differential wave equation governing the energy of this system. (1) b. Solve this equation for the stationary-state wavefunctions  $\psi_{n_x, n_y}$ , and determine all the allowed ...

PHYS401 Quantum Physics I - FINAL EXAM Spring 2012

This is a course on Quantum Mechanics written and delivered by Prof. Graeme Ackland at the

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