

Physics 491: Quantum Mechanics 1
 Problem Set #3: Solutions

Problem 1 Square packet

Initial plane wave $\psi_0 e^{i p_0 x / \hbar}$ is localized in a region of width a

$$\psi(x) = \begin{cases} A e^{i p_0 x / \hbar} & -\frac{a}{2} \leq x \leq \frac{a}{2} \\ 0 & \text{otherwise} \end{cases}$$

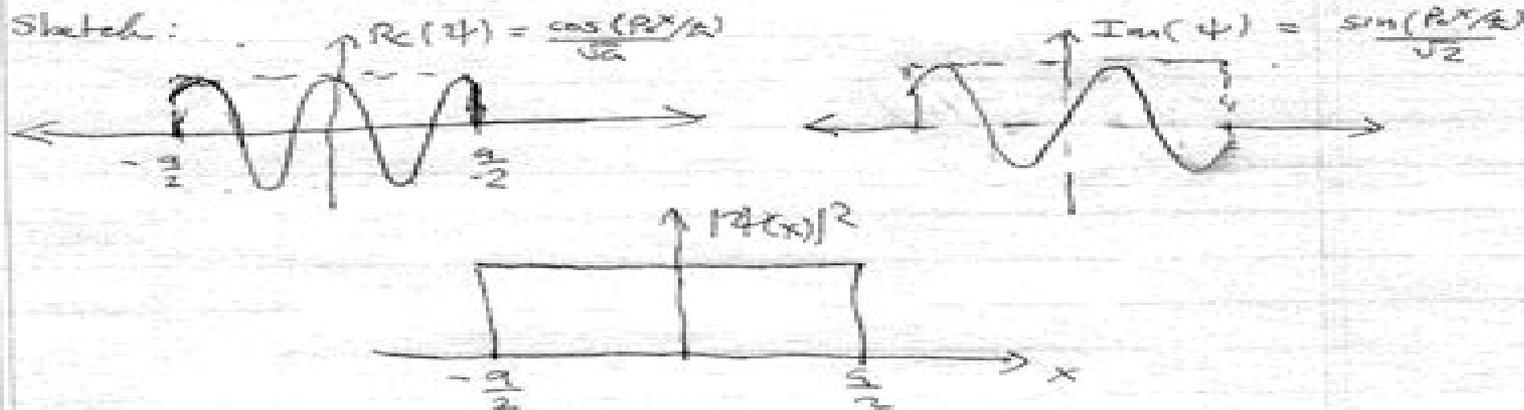
(a) Normalization $\int_{-\infty}^{\infty} |\psi(x)|^2 dx = \int_{-\frac{a}{2}}^{\frac{a}{2}} dx |A|^2 = 1$

$\Rightarrow a |A|^2 = 1$

$\Rightarrow A = \frac{e^{i\phi}}{\sqrt{a}}$ ← overall phase is arbitrary (set $\phi = 0$)

$\Rightarrow \psi(x) = \frac{1}{\sqrt{a}} e^{i p_0 x / \hbar}, \quad -\frac{a}{2} \leq x \leq \frac{a}{2}$

Sketch:



Note that the probability density in "position space" does not depend on the momentum p_0

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Conquering the Physics GRE Yoni Kahn, Adam Anderson, 2018-03-01 The Physics GRE plays a significant role in deciding admissions to nearly all US physics Ph D programs yet few exam prep books focus on the test's actual content and unique structure Recognized as one of the best student resources available this tailored guide has been thoroughly updated for the current Physics GRE It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test review their preparedness and identify areas in which further study is needed Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology this self contained reference guide will help students achieve their best score

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Optics and Spectroscopy, 2001

American Journal of Physics, 2002

Problems in Classical and Quantum Mechanics J. Daniel Kelley, Jacob J. Leventhal, 2016-11-30 This book is a collection of problems that are intended to aid students in graduate and undergraduate courses in Classical and Quantum Physics It is also intended to be a study aid for students that are preparing for the PhD qualifying exam Many of the included problems are of a type that could be on a qualifying exam Others are meant to elucidate important concepts Unlike other compilations of problems the detailed solutions are often accompanied by discussions that reach beyond the specific problem The solution of the problem is only the beginning of the learning process it is by manipulation of the solution and changing of the parameters that a great deal of insight can be gleaned The authors refer to this technique as massaging the problem and it is an approach that the authors feel increases the pedagogical value

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