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## Problems And Solutions In Quantum Mechanics K Tamvakis

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Solutions to selected exercises and problems. Selected answers to the problems in the book can be accessed by clicking the chapter links below. The complete solutions manual is available to adopting lecturers only. Chapter 00 Introduction and orientation (PDF) Chapter 01 The foundations of quantum mechanics (PDF) Chapter 02

~~Solutions to selected exercises and problems~~

Soln: From Problem 3.6 we have  $A = m \frac{d^2}{dt^2} x + i p \frac{d}{dt} x - 2m\hbar^{-1} x = x^2 + i \hbar^{-1} p A = m f^2 x + i p 2m\hbar^{-1} f^2 = f x^2 + i f \hbar^{-1} p$  Hence  $A + A^\dagger = f x A - A^\dagger = f 2i f \hbar^{-1} p$  so  $A = \frac{1}{2} f (A + A^\dagger) + f^2 (A - A^\dagger) / 0 = A |0\rangle = \frac{1}{2} X k (f - 1 + f) c k A |k\rangle + (f - 1 - f) c k A^\dagger |k\rangle = \frac{1}{2} X k n (f - 1 + f) k c |k - 1\rangle + (f - 1 - f) k + 1 c |k + 1\rangle i o$

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