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Soln: From Problem 3.6 we

have $A \equiv m\omega x + ip \sqrt{2m^{-1}\hbar\omega} = x$

$2\ell + i\ell^{-1}\hbar p$ $A' \equiv m\sqrt{2}\omega x + ip$

$2m^{-1}\hbar\omega = \ell x$ $2\ell + i\ell^{-1}\hbar p$

Hence $A' + A'^{\dagger} = \ell x$ A'

$-A'^{\dagger} = \ell^{-1}i\hbar p$ so $A = 1$

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$$\begin{aligned}
 & 2f (A' + A'^{\dagger}) + f^2 (A' - A'^{\dagger}) \\
 0 = A |0\rangle &= \frac{1}{2} \times k (f-1 + f) c \\
 kA' |k'\rangle &+ (f-1 - f) c kA \\
 ' + |k'\rangle &= \frac{1}{2} \times k n (f-1 + f) \\
 \sqrt{kck} |k-1'\rangle &+ (f-1 - f) \sqrt{k+1ck} |k+1'\rangle = 0
 \end{aligned}$$

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have solutions for specific (quantized) values of the total energy. In this article we describe a Python package that “automagically” transforms an analytically formulated Quantum Mechanical ...

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From the Back Cover. Problem solving in physics is not simply a test of understanding the subject,

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but is an integral part of learning it. In this book, the basic ideas and methods of quantum mechanics are illustrated by means of a carefully chosen set of problems, complete with detailed, step-by-step

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