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$= (j \cdot \text{Contents} \hbar^2 \cdot 2m \cdot dx^2 + V(x) = E \quad (1)$  The time component has the simple solution  $X(t) = e^{iEt} = \hbar^2(2)$  and the complete solution, for a given value of the energy  $E$  is  $Y(x;t) = \psi(x)e^{iEt} = \hbar^2(3)$  First, since the energy  $E$  is a physically measurable quantity, we would expect that it has to be a real number. This is fairly easy to prove, as follows. ENERGY & WAVE FUNCTIONS - A FEW THEOREMS  $j^2 = 1$ .  $N(j) = 1$   $14$ .  $(142) + (152) + 3(162) + 2(222) + 2(242) + 5(252) = 1$

$14$   
 $(196 + 225 + 768 + 968 + 1152 + 3125) = 6434$   $14 = 459.571$ . (b)  $j \Delta j = j - j$ .  $14 - 21 = -7$   $15 - 21 = -6$   $16 - 21 = -5$   $22 - 21 = 1$   $24 - 21 = 3$   $25 - 21 = 4$ .  $\sigma^2 =$   
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and for this I apologize in advance. I would like to thank the many people who pointed out mistakes in the solution manual for the first edition,  $\hbar^{-2} \cdot 2m \frac{d^2}{dx^2} + V(x) = E$   
 (1) The time component has the simple solution  $X(t) = e^{iEt} = \frac{1}{\hbar} (2)$  and the complete solution, for a given value of the energy  $E$  is  $Y(x;t) = \psi(x) e^{iEt} = \frac{1}{\hbar} (3)$   
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$r$ , and  $l(l + 1) \rightarrow m^2 - 1/4$ ,

which is to say,  $|l+1/2| + 1/4 = \sqrt{m^2}$ , or  $(|l+1/2|)^2 = m^2$ , or  $|l+1/2| = |m|$ . [Our present equation depends only on  $\sqrt{m^2}$ , and hence is the same for either sign, but the solution to Problem 4.39 assumed  $|l+1/2| \geq 0$  (else  $u$  is not normalizable), so we need  $|m|$  here.] Quoting 4.39:  $E = (j$ .

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