

## Chapter 1

# The Wave Function

### Problem 1.1

(a)

$$\langle j \rangle^2 = 21^2 = \boxed{441.}$$

$$\begin{aligned} \langle j^2 \rangle &= \frac{1}{N} \sum j^2 N(j) = \frac{1}{14} [(14^2) + (15^2) + 3(16^2) + 2(22^2) + 2(24^2) + 5(25^2)] \\ &= \frac{1}{14} (196 + 225 + 768 + 968 + 1152 + 3125) = \frac{6434}{14} = \boxed{459.571.} \end{aligned}$$

(b)

| $j$ | $\Delta j = j - \langle j \rangle$ |
|-----|------------------------------------|
| 14  | $14 - 21 = -7$                     |
| 15  | $15 - 21 = -6$                     |
| 16  | $16 - 21 = -5$                     |
| 22  | $22 - 21 = 1$                      |
| 24  | $24 - 21 = 3$                      |
| 25  | $25 - 21 = 4$                      |

$$\begin{aligned} \sigma^2 &= \frac{1}{N} \sum (\Delta j)^2 N(j) = \frac{1}{14} [(-7)^2 + (-6)^2 + (-5)^2 \cdot 3 + (1)^2 \cdot 2 + (3)^2 \cdot 2 + (4)^2 \cdot 5] \\ &= \frac{1}{14} (49 + 36 + 75 + 2 + 18 + 80) = \frac{260}{14} = \boxed{18.571.} \end{aligned}$$

$$\sigma = \sqrt{18.571} = \boxed{4.309.}$$

(c)

$$\langle j^2 \rangle - \langle j \rangle^2 = 459.571 - 441 = 18.571. \quad [\text{Agrees with (b).}]$$

# Griffiths Quantum Mechanics 2nd Ed Solutions Manual

**Albert A Gayle**



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