

Quantum Mechanics 1st Edition McIntyre **SOLUTIONS MANUAL**

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1.1. a)

$$|\psi_1\rangle = 3|+\rangle + 4|-\rangle$$

To normalize, introduce an overall complex multiplicative factor and solve for this factor by imposing the normalization condition:

$$\begin{aligned} |\psi_1\rangle &= C(3|+\rangle + 4|-\rangle) \\ 1 = \langle\psi_1|\psi_1\rangle &= \{C^*(3\langle+| + 4\langle-|)\} \{C(3|+\rangle + 4|-\rangle)\} \\ &= C^*C(9\langle+|+\rangle + 12\langle+|-\rangle + 12\langle-|+\rangle + 16\langle-|-\rangle) = C^*C(25) \\ |C|^2 &= \frac{1}{25} \end{aligned}$$

Because an overall phase is physically meaningless, we choose C to be real and positive: $C = 1/5$. Hence the normalized input state is

$$|\psi_1\rangle = \frac{3}{5}|+\rangle + \frac{4}{5}|-\rangle.$$

Likewise:

$$\begin{aligned} |\psi_2\rangle &= C(|+\rangle + 2|-\rangle) \\ 1 &= \{C^*(\langle+| + 2\langle-|)\} \{C(|+\rangle + 2|-\rangle)\} = C^*C(\langle+|+\rangle + 4\langle-|-\rangle) = |C|^2(5) \\ |\psi_2\rangle &= \frac{1}{\sqrt{5}}|+\rangle + \frac{2}{\sqrt{5}}|-\rangle \end{aligned}$$

and

$$\begin{aligned} |\psi_3\rangle &= C(3|+\rangle - e^{i\pi/3}|-\rangle) \\ 1 &= \{C^*(3\langle+| - e^{-i\pi/3}\langle-|)\} \{C(3|+\rangle - e^{i\pi/3}|-\rangle)\} = C^*C(9\langle+|+\rangle + 1\langle-|-\rangle) = |C|^2(10) \\ |\psi_3\rangle &= \frac{1}{\sqrt{10}}|+\rangle - \frac{e^{i\pi/3}}{\sqrt{10}}|-\rangle \end{aligned}$$

b) The probabilities for state 1 are

$$\begin{aligned} P_{L+} &= |\langle+|\psi_1\rangle|^2 = |\langle+|(\frac{3}{5}|+\rangle + \frac{4}{5}|-\rangle)|^2 = |\frac{3}{5}\langle+|+\rangle + \frac{4}{5}\langle+|-\rangle|^2 = |\frac{3}{5}|^2 = \frac{9}{25} \\ P_{L-} &= |\langle-|\psi_1\rangle|^2 = |\langle-|(\frac{3}{5}|+\rangle + \frac{4}{5}|-\rangle)|^2 = |\frac{3}{5}\langle-|+\rangle + \frac{4}{5}\langle-|-\rangle|^2 = |\frac{4}{5}|^2 = \frac{16}{25} \end{aligned}$$

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