

Assignment #2 1.15, 2.6, 2.7, 2.12

1.15 We are given that $|\langle +z | \psi \rangle|^2 = \frac{9}{10} \Rightarrow |\langle -z | \psi \rangle|^2 = \frac{1}{10}$.
 Now, we fix the phase. Assume $\langle +z | \psi \rangle = \sqrt{\frac{9}{10}}$;
 hence $\langle -z | \psi \rangle = e^{i\delta} \sqrt{\frac{1}{10}}$, where δ is relative phase
 between $|+z\rangle$ and $|-z\rangle$.

$$\therefore |\psi\rangle = \sqrt{\frac{9}{10}} | +z \rangle + e^{i\delta} \sqrt{\frac{1}{10}} | -z \rangle$$

$$\therefore | +y \rangle = \frac{1}{\sqrt{2}} | +z \rangle + \frac{1}{\sqrt{2}} | -z \rangle$$

$$\therefore \langle +y | \psi \rangle = \frac{1}{\sqrt{2}} \left(\sqrt{\frac{9}{10}} - i \sqrt{\frac{1}{10}} e^{i\delta} \right)$$

$$\Rightarrow |\langle +y | \psi \rangle|^2 = \frac{1}{2} + \frac{3}{10} \sin^2 \delta; \text{ but it is given } |\langle +y | \psi \rangle|^2 =$$

$$\therefore \frac{1}{2} + \frac{3}{10} \sin^2 \delta = \frac{2}{10} = \frac{1}{5} \Rightarrow \sin^2 \delta = -1 \Rightarrow \delta = \frac{3\pi}{2}$$

Next, for obtaining $S_x = \frac{1}{2}$, we do:

$$\begin{aligned} \langle +x | \psi \rangle &= \left(\frac{1}{\sqrt{2}} | +z \rangle + \frac{1}{\sqrt{2}} | -z \rangle \right) \left(\sqrt{\frac{9}{10}} | +z \rangle + e^{i\frac{3\pi}{2}} \sqrt{\frac{1}{10}} | -z \rangle \right) \\ &= \frac{1}{\sqrt{2}} \left(\sqrt{\frac{9}{10}} + \sqrt{\frac{1}{10}} e^{i\frac{3\pi}{2}} \right) \end{aligned}$$

$$\therefore |\langle +x | \psi \rangle|^2 = \frac{1}{2} + \frac{3}{10} \cos^2 \frac{3\pi}{2} = \frac{1}{2}$$

$$\text{Summary: } |\psi\rangle = \sqrt{\frac{9}{10}} | +z \rangle + e^{i\frac{3\pi}{2}} \sqrt{\frac{1}{10}} | -z \rangle$$

$$|\langle +x | \psi \rangle|^2 = \frac{1}{2}$$

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