

$$\frac{-\frac{\sqrt{2}}{2}a + b \times \frac{1}{\sqrt{2}}}{-\frac{1}{\sqrt{2}}a + b \times \frac{1}{\sqrt{2}}} = -\frac{\sqrt{2}}{2} \Rightarrow \frac{-\frac{\sqrt{2}}{2}a - b}{-\frac{a+b}{\sqrt{2}}} = -\frac{\sqrt{2}}{2}$$

$$\Rightarrow \sqrt{2}b - \sqrt{2}a = \sqrt{2}a + \sqrt{2}b \Rightarrow \sqrt{2}b + \sqrt{2}b = (\sqrt{2} + \sqrt{2})a \Rightarrow \frac{b}{a} = \frac{\sqrt{2} + \sqrt{2}}{\sqrt{2} + \sqrt{2}}$$

$$\left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right) \rightarrow \frac{1}{\sqrt{2}} + y^2 = 1 \rightarrow y^2 = 1 - \frac{1}{2} = \frac{1}{2} \Rightarrow y = \pm \frac{1}{\sqrt{2}} \Rightarrow 90^\circ \text{ and } 270^\circ$$

$$\frac{\pi}{4} = \frac{\pi}{2} \times \frac{1}{2} = 90^\circ \times \frac{1}{2} = 45^\circ$$

$$\Rightarrow (2, \epsilon) \rightarrow \text{نقطہ}$$

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۴. ۲. دقت قبل و بعد از رد کردن تقریب حالت شمار

$$\frac{1}{\sqrt{2}} < \sin \leq 1 \Rightarrow \frac{1}{\sqrt{2}} < \frac{m}{d} \leq 1 \Rightarrow \boxed{\frac{1}{\sqrt{2}} < m \leq 1}$$

$$\frac{c \cdot \sin \alpha + k(-\sin \alpha)}{-c \sin \alpha - 2 \sin \alpha} = 3 \Rightarrow \frac{-1c(-\sin \alpha) + 1}{-2(-\sin \alpha) - 1} = 3 \Rightarrow \frac{c \sin \alpha + 1}{2 \sin \alpha - 1} = 3 \Rightarrow c \sin \alpha + 1 = 6 \sin \alpha - 3 \Rightarrow c \sin \alpha = 5 \sin \alpha - 4 \Rightarrow c = 5 - \frac{4}{\sin \alpha}$$