

A $\frac{1}{\sqrt{2}}$

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① $\sin \theta \times a \times b = \sin \phi \rightarrow \frac{1}{\sqrt{2}} \times \sqrt{2} \times \sqrt{2} = \sin \phi$ $k^2 = 1$ $k = \sqrt{2}$

$a = 4\sqrt{2}$, $b = 2\sqrt{2}$ $k = \sqrt{2}$

② $\frac{1}{\sqrt{2}} \sin A \times (\cancel{a \times b} - \cancel{F \times V}) = \frac{1}{\sqrt{2}} \times \sqrt{2} \times \frac{V}{\sqrt{2}}$ $\sin A = \frac{1}{\sqrt{2}} \Rightarrow \tan A = \frac{\sqrt{2}}{\sqrt{2}}$

③ $\frac{1}{|a|} - \frac{\sin a}{a} = \frac{1}{|a|} + \frac{\sin a}{|a|} \Rightarrow \frac{-\sin a}{a} = \frac{\sin a}{|a|}$

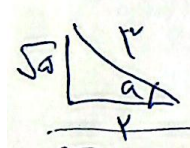
$\Rightarrow \frac{\sin a < 0}{a} , \frac{|\sin a|}{a} = -\sin a = \frac{-\sin a}{a} \Rightarrow \sin a < 0$

$\Rightarrow \text{angle } a$

④ $\sin\left(\frac{a}{\sqrt{2}} - a\right) = \cos a \Rightarrow \tan a = \frac{\sqrt{2}}{\sqrt{2}}$ $\cos a = \frac{\sqrt{2}}{\sqrt{2}}$

⑤ $\frac{\sqrt{2} \cos(\sqrt{2} - \sqrt{2}) - \sqrt{2} \sin(90 + \sqrt{2})}{\sin(180 + \sqrt{2}) - \cos(\sqrt{2} + \sqrt{2})} = \frac{-\sqrt{2} \sin \sqrt{2} - \sqrt{2} \sin \sqrt{2}}{-\sin \sqrt{2} - \sin \sqrt{2}} = \frac{-2\sqrt{2}}{-2} = \sqrt{2}$

⑥ $\frac{\cos a + \sin a}{|\sin a - 1|} = \frac{\frac{\sqrt{2}}{\sqrt{2}} + \frac{\sqrt{2}}{\sqrt{2}}}{\left|\frac{\sqrt{2}}{\sqrt{2}} - 1\right|} = \frac{(1 + \sqrt{2})\sqrt{2}}{\sqrt{2} - 1} = \frac{\sqrt{2}}{\sqrt{2}} (1 + \sqrt{2})$



⑦ $\frac{\sin a}{\cos a} = \tan a = \frac{\sqrt{3}}{1}$ $\cos a = \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$

⑧ $\frac{-\sqrt{2}m}{m^2 - 1} = \sqrt{2}$ $\sqrt{2}m^2 + \sqrt{2}m - \sqrt{2} = 0$ $\frac{-1 \pm \sqrt{1 + 1}}{\sqrt{2}} =$

$m = \frac{\sqrt{2}}{\sqrt{2}}, -\sqrt{2} \Rightarrow \frac{\sqrt{2}}{\sqrt{2}} + \sqrt{2} = \frac{\sqrt{2}}{\sqrt{2}}$

$$(9) \quad -\frac{\sqrt{2}}{2} < -m < \frac{\sqrt{2}}{2} \quad 0 < \underbrace{\frac{\sqrt{2}}{2} - m}_{z} < \frac{\sqrt{2}}{2} \Rightarrow$$

$$z(t) > 0 \quad \frac{1-m}{1+m} > 0 \Rightarrow m \in (-1, 1)$$

$$(10) \quad (-\sqrt{2} \times 1) \times (-\sqrt{2} \times 1) + (-\sqrt{2} \times 1) \times (\sqrt{2} \times 1)$$

$$- \sqrt{2} \times \sqrt{2} + \frac{\sqrt{2}}{2} - \sqrt{2} \times \frac{\sqrt{2}}{2} = 0$$

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