

IV $\cot \leq \frac{\cos}{\sqrt{1-\cos^2}} \Rightarrow \sin > 0$ (2) - 1

$\frac{1}{|\cos|} - \frac{\sin}{\cos} = \frac{1-\sin}{|\cos|} \Rightarrow \frac{\sin}{\cos} = \frac{\sin}{|\cos|} \Rightarrow \cos > 0$ (2) - 1

$-\frac{\pi}{4} < \alpha < \frac{\pi}{4} \quad \frac{1}{2} < \frac{M-1}{\epsilon} \leq 1 \quad -1 < M \leq 1$ (2) - 1

$\tan + \cot = -1 \Rightarrow \frac{1}{\sqrt{2}} \sin \cdot \cos \quad \frac{\pi}{4} < \alpha < \pi \Rightarrow \sin > 0, \cos < 0$ (1) - 1
 $(\sin + \cos)' = 1 + 2(\frac{1}{\sqrt{2}}) = \frac{1}{\sqrt{2}} \Rightarrow \frac{1}{\frac{(\sin + \cos)(1 + (\frac{1}{\sqrt{2}}))}{\sqrt{2}}} = \frac{1}{\frac{\sqrt{2}}{2} \times \frac{1}{\sqrt{2}}} = \frac{2\sqrt{2}}{2}$

$\cos \theta = 0 \Rightarrow \omega \times 0 \leq r \leq h \quad r \times \frac{\omega + r}{r} \leq 100$ (0) - 1

$-\tan(\frac{\pi}{4} + \alpha) \tan(\pi - \alpha) - \sin(\alpha) \cos(\frac{\pi}{4} - \alpha)$ (2) - 1
 $+ \cot \alpha \times \tan \alpha + \sin \alpha \times \sin \alpha = \sin^2 \alpha - 1 = -\cos^2 \alpha \Rightarrow K = -1$

$\frac{\sqrt{2} \times \frac{\sqrt{2}}{2} \times \cos 45^\circ + \sqrt{2} \times \frac{\sqrt{2}}{2} \times \cos 45^\circ}{\frac{2}{2}} = (2 \times \frac{1}{2}) \cos 45^\circ$ (2) - 1

$\frac{1}{\sqrt{2}} \times \cos(\frac{\pi}{4}) \cos(\frac{\pi}{4}) \cos(\frac{\pi}{4}) \cos(\frac{\pi}{4}) = \frac{1 + \sqrt{2}}{14}$ (2) - 1
 $\frac{1 + \cos \frac{\pi}{4}}{2} = \cos^2 \frac{\pi}{8} = \frac{1 + \sqrt{2}}{4}$

$1 - \sin = \epsilon + \epsilon \sin \Rightarrow \sin = \frac{-\epsilon}{\omega} \quad \cos = \frac{\epsilon}{\omega} \quad \tan = \frac{\epsilon}{\epsilon}$ (2) - 1
 $\frac{\epsilon}{\epsilon} = \frac{1 + \tan \frac{\pi}{4}}{1 - \tan \frac{\pi}{4}} \Rightarrow \frac{\epsilon}{\epsilon} - \frac{\epsilon}{\epsilon} t^2 = t \Rightarrow t^2 + t - 1 = 0 \Rightarrow t = \frac{-1 \pm \sqrt{1+4}}{2} = \frac{-1 \pm \sqrt{5}}{2}$

$\frac{1 + \cos}{\sin} = \frac{\sin}{1 - \cos} \Rightarrow \frac{1 + \cos}{\sin} = \cot \frac{\alpha}{2} \Rightarrow K = 1$ (2) - 1

$\cos(\frac{\pi}{4} + \alpha) = \cos \alpha \times \frac{\sqrt{2}}{2} - \sin \alpha \times \frac{\sqrt{2}}{2} = \frac{\sqrt{2}}{2} (\frac{\sqrt{2}\cos \alpha - \sqrt{2}\sin \alpha}{2}) = 0$ (2) - 1

$$(\sin \alpha + \cos \alpha)^r = 1 + r \sin \alpha \cos \alpha$$

$$= 1 + r \left(-\frac{1}{r}\right) = \frac{1}{r}$$

-r

$$r\pi < r\alpha < r\pi \rightarrow \frac{r}{r}\pi < \alpha < \pi \xrightarrow{\sin \alpha + \cos \alpha < 0} \frac{-\sqrt{r}}{r}$$

$$\sin^r \alpha + \cos^r \alpha = (\sin \alpha + \cos \alpha)(\sin^r \alpha + \cos^r \alpha - \sin \alpha \cos \alpha) = -\frac{\sqrt{r}}{r} \left(\frac{r}{r}\right)$$

$$\hookrightarrow 1 - \left(-\frac{1}{r}\right) = \frac{r}{r}$$

$$\rightarrow \frac{1}{\sin^r \alpha + \cos^r \alpha} = \boxed{\frac{-r \sqrt{r}}{r}}$$

$$\cos \theta = \frac{4}{10} = \frac{n}{a} \rightarrow n = r$$

$$\sin \theta = \frac{1}{10} = \frac{h}{a} \rightarrow h = r$$

$$\left. \begin{array}{l} \cos \theta = \frac{4}{10} = \frac{n}{a} \rightarrow n = r \\ \sin \theta = \frac{1}{10} = \frac{h}{a} \rightarrow h = r \end{array} \right\} \rightarrow S = \frac{(r+1)}{r} \times r = \boxed{r_0}$$

-f

