

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

(۲)

$$a > 0 \text{ } \textcircled{1} \quad \frac{\sin a}{\sin a} = \frac{a}{|a|} \Rightarrow \sin a > 0 \text{ } \textcircled{2}$$

$\textcircled{1}, \textcircled{2} \Rightarrow a$ ~~مثبت~~
 ~~مثبت~~

$$-\frac{\sqrt{2}}{2} < m < \frac{\omega \sqrt{2}}{2} \quad -\frac{1}{2} < \sin m < \frac{1}{2} \quad -\frac{1}{2} < \frac{m-1}{2} < \frac{1}{2} \quad -2 < m-1 < 4$$

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$$-1 < m < \omega$$

$$\frac{\sin m + \sin n}{\sin m \sin n} = \dots \quad \sin m \sin n = -\frac{1}{4} \quad (\sin^2 m + \cos^2 n) = (\sin m + \cos n)(1 - \sin m \cos n)$$

(۱، ۷، ۵)

$$m \sin m + \cos n < 0 \quad m^2 = 1 + 2 \sin m \cos n = 1 - \frac{2}{4} = \frac{1}{2} \Rightarrow \sin m + \cos n = \frac{\sqrt{2}}{2}$$

$$\frac{\sqrt{2}}{2} (\sin m + \cos n) = \frac{\sqrt{2}}{2} \left(\frac{1}{\sin m \cos n} \right) = -\frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} = -\frac{2}{4} = -\frac{1}{2}$$

$h = 2 \quad \frac{(k+1)}{2} \times h^2 = 4$

$$-\cos 10^\circ \times \sin 10^\circ + \sin 10^\circ \times \sin 10^\circ = \sin^2 10^\circ - 1 = -\cos^2 10^\circ \Rightarrow k = 1$$

(۲)

