

$$\left. \begin{array}{l} \cos > 0 \\ \sin > 0 \end{array} \right\} \Rightarrow \text{الأولى} \quad \frac{\sin}{\cos} = \frac{\sin}{|\cos|} \Rightarrow |\cos| = \cos \quad \text{سواءاً}$$

$$-\frac{1}{2} < \frac{m-1}{2} < 1 \Rightarrow -1 < m < 3$$

$$\sin \cdot \cos = \frac{1}{4} \quad (\sin + \cos)^2 = \frac{1}{4} \Rightarrow \sin + \cos = \sqrt{\frac{1}{4}}$$

$$\Rightarrow \frac{1}{\sin + \cos} = \frac{1}{\frac{1}{2}\sqrt{\frac{1}{4}}} = \frac{2}{\frac{1}{2}\sqrt{\frac{1}{4}}} = \frac{4}{\sqrt{\frac{1}{4}}}$$

$$S = \frac{AD + BC}{2} \times AH = \frac{4 \times 1}{2} \times 1 = 2$$

$$-\cot(\alpha) \tan(\omega) - \sin(\alpha) \cos(\alpha) = -\cos^2(\alpha) = k \cos^2(\alpha)$$

$$\Rightarrow k = -1$$

$$\sqrt{2} \left(-\frac{\sqrt{2}}{2}\right) \cos(\pi v) = \sqrt{2} \left(\frac{\sqrt{2}}{2}\right) \cos(\pi v) \Rightarrow \frac{\cos(\pi v)}{\cos(\pi v)} = \frac{1}{-1}$$

$$\frac{\sin^2(\pi m)}{14 \sin^2(\pi n)} \Rightarrow \frac{4}{14 \times \left(\frac{1-\sqrt{2}}{2}\right)} = \frac{4(1+\sqrt{2})}{14(1-\sqrt{2})} = \frac{1+\sqrt{2}}{14}$$

$$\sin = -\frac{r}{2} \quad \tan \frac{\pi}{2} = \frac{\sin \frac{\pi}{2}}{1 + \cos \frac{\pi}{2}} = \frac{\frac{r}{2}}{1 - \frac{r}{2}} = -1 \Rightarrow \cos = \frac{r}{2}$$

$$\frac{\sin}{1-\cos} = \frac{1+\cos}{\sin} = \cot \frac{A}{2} \Rightarrow \cot \frac{A}{2} = 1 \Rightarrow \cot \frac{A}{2} = 1 \Rightarrow k = 1$$

$$1 - \sin^2 = \frac{9}{10} \Rightarrow \cos = \pm \frac{3\sqrt{10}}{10}$$

$$\Rightarrow \cos\left(\frac{\pi}{2} - \alpha\right) \cos \alpha - \sin\left(\frac{\pi}{2} - \alpha\right) \sin \alpha$$

$$= \frac{1}{10} - \frac{9}{10} = -\frac{8}{10} = -\frac{4}{5}$$