

سواء تلتف ٢٨
 $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$
 A زخم دست

كثيرا حبي

$$\frac{1}{|\cos a|} - \frac{\sin a}{\cos a} = \frac{1 - \sin a}{|\cos a|} \rightarrow \frac{-\sin a}{\cos a} = \frac{1 - \sin a - 1}{|\cos a|} = \frac{-\sin a}{|\cos a|} \rightarrow \cos a \rightarrow \text{①}$$

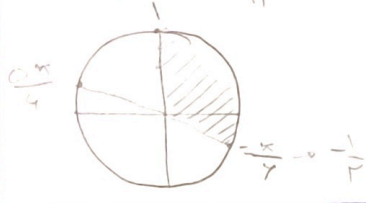
اكثر حبي ①

$$\cot a = \frac{\cos a}{|\sin a|} \xrightarrow{\cos a} \cot a \rightarrow \text{المثلث II} \quad \text{I و II} \rightarrow \text{المثلث I}$$

$$\sin m = \frac{m-1}{\Sigma}$$

②

$$-\frac{\pi}{4} < x < \frac{\pi}{4} \xrightarrow{\times 4} -\frac{\pi}{4} < m < \frac{\pi}{4}$$



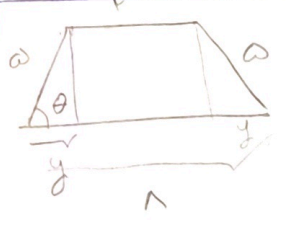
$$-\frac{1}{2} < \frac{m-1}{\Sigma} \leq 1 \xrightarrow{\times \Sigma} -\frac{\Sigma}{2} < m-1 \leq \Sigma \xrightarrow{+1} -1 < m \leq \Sigma$$

$$\tan x + \cot x = -\frac{1}{\mu} \rightarrow \frac{1}{\sin x \cdot \cos x} = -\frac{1}{\mu} \rightarrow \sin x \cdot \cos x = -\frac{1}{\mu} \quad \text{③}$$

$$\mu\pi < x < 2\pi \rightarrow \frac{\mu\pi}{\Sigma} < x < \pi$$

$$(\sin x + \cos x)^2 = \sin^2 x + \cos^2 x + 2\sin x \cos x = 1 + 2\left(-\frac{1}{\mu}\right) = 1 - \frac{2}{\mu}$$

$$\frac{1}{\sqrt{\frac{1}{\mu} \left(1 + \frac{1}{\mu}\right)}} = \frac{\frac{\sqrt{\mu}}{\mu}}{\frac{1}{\mu} \left(\frac{\Sigma}{\mu}\right)} = \frac{\sqrt{\mu}}{\Sigma} = \frac{\mu \sqrt{\mu}}{\Sigma}$$



$$\cos \theta = 0.4 \rightarrow \cos \theta = \frac{4}{5} = \frac{4}{5} \rightarrow y = 3$$

$$\text{مساحة} = \frac{(1+2) \times 3}{2} = \boxed{4.5}$$

$$\tan(1.9a) \tan(-1.4a) - \sin(1.9a) \cos(1.9a) =$$

$$\tan(\pi/10 + 1a) \tan(-11a + 1a) - \sin(1a) \cos(\pi/10 - 1a) = -\cot a \tan a + \sin a \sin a$$

$$-1 + \sin^2 a = K \cos^2 a$$

$$-1 + \sin^2 a = K - K \sin^2 a \rightarrow K = -1$$

$$A = \sqrt{r^2} \cos^2 \alpha \sin(\pi - \pi) - \sqrt{r} \sin \pi \cos(\pi - \pi) \quad (6)$$

$$A = -\frac{\sqrt{r^2} \sqrt{r^2}}{r} \times -\cos \pi - \sqrt{r} \times \frac{\sqrt{r}}{r} \times -\cos \pi = +\frac{r}{r} \cos \pi + \cos \pi = \cos \pi \left(\frac{r}{r} + 1 \right)$$

$$\frac{\cos \pi \left(\frac{r}{r} + 1 \right)}{\cos \pi} = \boxed{\frac{r+1}{r}}$$

$$f(x) = 14 \cos^2(\pi x) \cos^2(2x) \cos^2(4x) \cos^2(8x) \quad (7)$$

$$f\left(\frac{\pi}{12}\right) = 14 \cos^2\left(\frac{\pi}{12}\right) \cos^2\left(\frac{\pi}{6}\right) \cos^2\left(\frac{\pi}{3}\right) \cos^2\left(\frac{\pi}{2}\right) = 14 \cos^2\left(\frac{\pi}{12}\right) \times \frac{r}{r} \times \frac{1}{r} \times \frac{1}{r} = \frac{r+3\sqrt{r}}{14}$$

$$\cos^2 \alpha = \frac{1 + \cos 2\alpha}{2} = \frac{r + \sqrt{r}}{2}$$

$$\frac{14(1 + \cos \frac{\pi}{2})}{r}$$

$$\frac{1 - \sin \alpha}{1 + \sin \alpha} = \frac{r}{\omega} \rightarrow 1 - \sin \alpha = \frac{r}{\omega} + \sin \alpha \rightarrow -r = \omega \sin \alpha \rightarrow -\frac{r}{\omega} = \sin \alpha \quad (8)$$

$$\sin \alpha = -\frac{r}{\omega} \quad \cos^2 \frac{\alpha}{r} = \frac{1 + \cos \alpha}{r} = \frac{1 - \frac{r}{\omega}}{r} = \frac{\frac{\omega - r}{\omega}}{r} = \frac{\omega - r}{r\omega} \Rightarrow \cos \frac{\alpha}{r} = \frac{\omega - r}{r\omega}$$

$$\cos \alpha = -\frac{r}{\omega} \quad \sin^2 \frac{\alpha}{r} = \frac{1 - \cos \alpha}{r} = \frac{1 + \frac{r}{\omega}}{r} = \frac{\frac{\omega + r}{\omega}}{r} = \frac{\omega + r}{r\omega} \Rightarrow \sin \frac{\alpha}{r} = \frac{\omega + r}{r\omega}$$

$$\tan \frac{\alpha}{r} = \frac{\sqrt{\frac{\omega + r}{r\omega}}}{\sqrt{\frac{\omega - r}{r\omega}}} = \sqrt{\frac{\omega + r}{\omega - r}} = -r$$

$$\frac{\sin \theta}{1 - \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} = \frac{1}{\tan \frac{\theta}{r}} + \frac{1}{\tan \frac{\theta}{r}} = \frac{r}{\tan \frac{\theta}{r}} \quad (9)$$

$$\frac{r}{\tan \frac{\theta}{r}} = k \cot \frac{\theta}{r} = \frac{k}{\tan \frac{\theta}{r}} \Rightarrow k = r$$

$$\cos\left(\frac{11\pi}{2} + a\right) = -\sin a \quad (10)$$

$$\cos 11\pi \cos a - \sin 11\pi \sin a = -\frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} - \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} = \frac{1}{r} - \frac{r}{r} = \frac{1-r}{r} = -\frac{r-1}{r}$$