

$$\cot \alpha = \frac{\cos \alpha}{\sqrt{1 - \cos^2 \alpha}}, \quad \frac{1}{\sqrt{\cos^2 \alpha}} - \frac{1}{\cot \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|} \quad (1)$$

$$\cot \alpha \rightarrow \frac{\cos}{\sin} = \frac{\cos}{|\sin|} \quad \sin > 0 \rightarrow \text{نہی ہوگی}$$

$$\frac{1}{|\cos|} - \frac{\sin}{\cos} = \frac{1 - \sin}{|\cos|} \rightarrow \cos > 0 \quad (\text{KLP}) \quad \text{نہی}$$

$$\frac{\pi}{14} < \alpha < \frac{2\pi}{14} \quad \sin \alpha = \frac{m-1}{F} \quad (2)$$

$$-\frac{1}{F} < \frac{m-1}{F} < 1$$

$-1 < m < 1$

$$\tan \alpha + \cot \alpha = -\frac{1}{F}$$

$$\sin \alpha \cos \alpha = -\frac{1}{F}$$

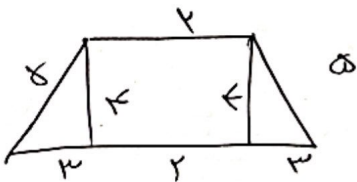
$$\frac{\pi}{14} < \alpha < \frac{\pi}{7}$$

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

$$\frac{1}{(\sin^2 \alpha + \cos^2 \alpha) (\sin^2 \alpha + \cos^2 \alpha + \sin \alpha \cos \alpha)} = \frac{-\frac{1}{F} \sqrt{F}}{F}$$

$$A^2 = \sin^2 \alpha + \cos^2 \alpha + \sin \alpha \cos \alpha$$

$$A = -\frac{1}{\sqrt{F}}$$



$$\cos \theta = \frac{r}{s}$$

$$s = \frac{(r+k)r}{r} = k$$

(1)  
(2)

B - نوٹس ایسے

$$\frac{\tan(110^\circ) \tan(-140^\circ) - \sin(109^\circ) \cos(125^\circ)}{\frac{\sqrt{2}}{2} + 18 - \tan(12-18)} = k \cos^2 10^\circ$$

$$-\cot 10^\circ \times \tan 10^\circ - \sin 10^\circ \times -\sin 10^\circ = -\cos^2 10^\circ$$

$$k = -1$$

~~$$A = \sqrt{10} \cos(110^\circ) \sin(125^\circ) - \sqrt{10} \sin(110^\circ) \cos(125^\circ)$$

$$\sqrt{10} \cos 10^\circ \times \sin(180^\circ - 45^\circ) + \cos(180^\circ - 45^\circ)$$

$$= \frac{\sqrt{10}}{2} \cos 45^\circ$$~~

$$A = \sqrt{10} (\cos 110^\circ) \sin(125^\circ) - \sqrt{10} \sin(110^\circ) \cos(125^\circ)$$

$$= \frac{\sqrt{10}}{2} \times -\cos 45^\circ + \frac{\sqrt{10}}{2} \cos 45^\circ$$

$$A = \frac{\omega}{\sqrt{2}} \cos 45^\circ$$

$$f(u) = 14 \cos^2(u) \cos^2(2u) \cos^2(3u) \cos^2(4u)$$

$$14 \left( \frac{\sqrt{4} + \sqrt{2}}{4} \right) \times \frac{\sqrt{2}}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{(1 + \sqrt{2}) \times \sqrt{2}}{4} = \frac{1 + \sqrt{2}}{2}$$

$$\frac{1 - \sin u}{1 + \sin u} = \epsilon$$

$$\tan \frac{u}{2} = \frac{\sin u}{1 + \cos u} = -\frac{3}{4}$$

$$\epsilon \sin u + \epsilon = 1 - \sin u$$

$$\sin u = -\frac{3}{8} \quad \cos u = -\frac{5}{8}$$

نویسید اریبہ - باہر B

$$\frac{\sin \theta}{1 - \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} = \text{let } \frac{\theta}{r}$$

نویسید اریبه - کاندید ری B

$$\frac{r \sin \left( \frac{\alpha}{r} \right)}{r \sin \left( \frac{\alpha}{r} \right)}$$

$$+ r \cos \left( \frac{\alpha}{r} \right)$$

$$r \sin \left( \frac{\alpha}{r} \right)$$

$$r \sin \left( \frac{\alpha}{r} \right) \cos \left( \frac{\alpha}{r} \right)$$

$$= r \cot \frac{\alpha}{r} \Rightarrow \boxed{r}$$

جواب

$$\frac{r}{r} < \alpha < r$$

$$\sin \alpha = \frac{\sqrt{r}}{r}$$

$$\cos \alpha = \frac{-\sqrt{r}}{r}$$

b

$$\cos(A+B) = \cos A \cos B - \sin A \sin B = \cos \frac{r}{r} \times \cos \alpha$$

$$\left( \frac{-\sqrt{r}}{r} \times \frac{-\sqrt{r}}{r} \right) - \left( \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} \right) = \boxed{\frac{r}{r}}$$