

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

19

①

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

1

$$\frac{1}{|\cos|} - \frac{\sin}{\cos} = \frac{1 - \sin}{|\cos|} \rightarrow \cos > 0$$

کے پ

نہی

$$\frac{\pi}{14} < \alpha < \frac{2\pi}{14}$$

$$\sin^2 \alpha = \frac{m-1}{F}$$

②

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

-1 < m < 1

5

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

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

$$\frac{\pi}{2} < \alpha < \pi$$

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

5

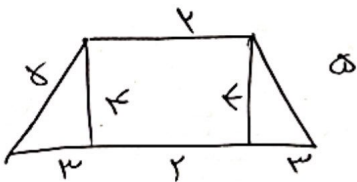
$$\frac{1}{\sin^2 \alpha + \cos^2 \alpha} = \frac{-\mu \sqrt{\mu}}{\mu}$$

5

$$\frac{(\sin \alpha + \cos \alpha)(\sin^2 \alpha + \cos^2 \alpha + \sin \alpha \cos \alpha)}{A - \frac{1}{\mu} \times 1 + \frac{1}{\mu}}$$

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

$$A = -\frac{1}{\mu}$$



$$\cos \theta = \frac{\mu}{a}$$

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

6

7

5

B - نوٹس ایسے

$$\frac{\tan(110^\circ) \tan(-140^\circ) - \sin(109^\circ) \cos(125^\circ)}{\frac{12}{15} + 18 - \tan(12-18)} = k \cos^2 10^\circ$$

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

$$k = -1$$

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

$$\sqrt{10} \cos 10^\circ \times \sin(180^\circ - 40^\circ) + \cos(180^\circ - 40^\circ)$$

$$= \sqrt{10} \cos 40^\circ$$~~

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

$$= \frac{10}{15} \times -\cos 40^\circ + \frac{10}{15} \cos 40^\circ$$

$$A = \frac{10}{15} \cos 40^\circ$$

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

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

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

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

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

$$\sin u = -\frac{3}{8} \quad \cos u = -\frac{4}{8}$$

نویسید اریبہ - باہر B

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

جواب

$$\frac{r \sin \left(\frac{\alpha}{r}\right) + r \cos \left(\frac{\alpha}{r}\right)}{r \sin^2 \left(\frac{\alpha}{r}\right)}$$

$$+ r \cos^2 \left(\frac{\alpha}{r}\right)$$

$$r \sin^2 \left(\frac{\alpha}{r}\right)$$

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

نوشتن اریب - کا دہ مری B

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

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

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

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

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

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

$$1) \cot \alpha = \frac{\cos \alpha}{\sin \alpha} = \frac{\cos \alpha}{|\sin \alpha|} \rightarrow |\sin \alpha| = \sin \alpha \rightarrow \sin \alpha > 0$$

$$\frac{1}{\sqrt{\cos^2 \alpha}} - \frac{1}{\cot \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|} \rightarrow \cos \alpha = |\cos \alpha| \rightarrow \cos \alpha > 0$$

} اشارة موجبة