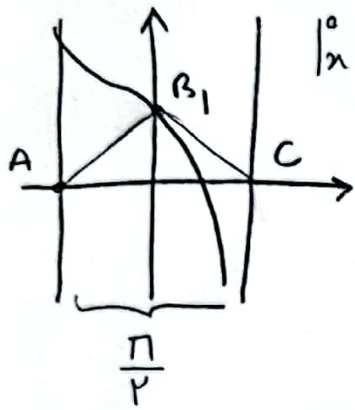


$$y = \tan\left(\frac{\pi}{r} - 2x\right) \quad \text{تاراب} = \left|\frac{\pi}{r}\right| \rightarrow \frac{\pi}{r}$$

آیدانامداری
در بازدهم دفتران B
تالیف ۱۵

۱۸، ۷۵



$$|x| \rightarrow \tan\left(\frac{\pi}{r}\right) \rightarrow 1$$

$$= \alpha = \frac{1 \times \frac{\pi}{r}}{r} \rightarrow \frac{\pi}{r}$$

1

$$\frac{f}{q} - \frac{1}{f} = \frac{14-9}{34}$$

2

$$\frac{r}{w} \rightarrow \frac{f}{q} - \frac{r}{w} \sin \alpha - \frac{1}{f} (1 - \sin^2)$$

$$\frac{\sin^2}{f} - \frac{r}{w} \sin \alpha + \frac{1}{wq} - \frac{1}{f} + \frac{\sin^2}{f}$$

$$9 \sin^2 - rf \sin + 1 = 0 \quad \sqrt{\Delta} = 18$$

$$1 + \tan^2 \rightarrow \frac{1}{\cos^2} = \frac{1}{\frac{1}{9}} = 9$$

$$\frac{rf + 18}{18} = x \quad \frac{rf - 18}{18} = \frac{1}{3}$$

$$\sin \alpha = \frac{1}{3}$$

$$\cos = \frac{\sqrt{8}}{3}$$

$$\log \frac{\sin}{-\cos} = \log^w \quad -\tan = w \quad \tan = -w$$



3

$$\sin - \cos \quad \frac{w}{\sqrt{10}} + \frac{1}{\sqrt{10}} = \frac{f}{\sqrt{10}} \quad \left(\frac{f\sqrt{10}}{10}\right)$$

sin > .
cos < .
دانه
log

2

$$(1 - \cos^2)^2 + \cos^2 = \frac{f}{8}$$

$$\cos^4 + \sin^2 \cos^2 - \frac{1}{8} + 1 - \cos^2 = \frac{f}{8} \quad \left(\frac{f}{8}\right)$$

$$\cos^4 + 1 - 2\cos^2 + \cos^2 = \frac{f}{8}$$

$$\cos^4 = \cos^2 - \frac{1}{8}$$

$$\frac{\sin(w + \cos)}{r(1 - \cos^2)} = \frac{r + \cos}{r \sin} \quad \begin{matrix} -1 < \cos < 1 \\ + \\ - \end{matrix}$$

sin < 0

نابینا سوم

5

$$\frac{\sin^2}{\cos} - \frac{1}{\cos}$$

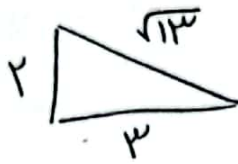
$$\frac{\cos^2}{\cos} - \frac{(1 - \sin^2)}{\cos} = -\cos > .$$

$$\frac{r \cos + r \sin}{\sin \cos} = 0$$

$$r \cos + r \sin = 0$$

$$r \cos = -r \sin$$

$$\tan = -\frac{r}{r}$$



$$\frac{\sin}{\cos} + \frac{\cos}{\sin} = \frac{1}{\sin \cos} \quad \frac{1}{\frac{r}{\sqrt{13}} \times \frac{r}{\sqrt{13}}} = \frac{1}{\frac{r^2}{13}} = \frac{13}{r^2} \quad \boxed{4}$$

$$\tan \theta = -\frac{13}{4}$$

✓

NO

$$\sqrt{1 + \frac{\cos^2 \theta}{\sin^2 \theta}}$$

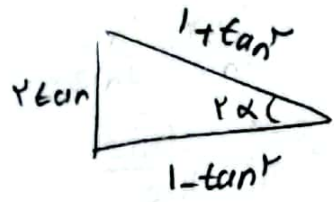
$$\sqrt{\frac{r \cos^2 r}{\cos^2 \theta + \cos^2 \theta}}$$

$$\sin \theta + \sin \theta$$

$$\cos \theta + \cos \theta$$

$$\cos \theta + \sin \theta$$

$$(1 - r \sin^2 \theta) (r \cos^2 \theta - 1) \left(\frac{1 - \tan^2 r}{1 + \tan^2 r} \right)$$



Λ

$$\sin \theta \cos \theta \rightarrow \frac{1}{r} \sin r \cos r \rightarrow \frac{1}{r} \sin r \cos r \rightarrow \frac{1}{n} \frac{\cos \theta}{\sin \theta} \rightarrow \frac{1}{n} \cot \theta$$

$$\sin = r - r \cos$$

$$\cos^2 + \sin^2 = 1$$

$$(r - r \cos)^2 + \cos^2 = 1$$

$$r^2 + 9 \cos^2 - 12 r \cos + \cos^2 = 1$$

$$10 \cos^2 - 12 r \cos + r^2 = 0$$

$$10 \cos^2 - 12 r \cos + r^2 = 0$$

$$10 \cos^2 - 12 r \cos + r^2 = 0$$

$$10 \cos^2 - 12 r \cos + r^2 = 0$$

[-Λ]

10

$$\sin B \sin C = \cos^2 \frac{A}{r}$$

$$B = \sqrt{r} \quad A^2$$

$$A + B + C = 180^\circ \quad B = \sqrt{r}$$

$$\sin \sqrt{r} \times \sin(180^\circ - A) = \cos^2 \frac{A}{r}$$

$$A + C = 180^\circ - \sqrt{r} = 180^\circ - A$$

$$C = 180^\circ - A$$

$$\frac{1}{r} [\cos(A - \sqrt{r}) - \cos(180^\circ - A)] = \cos^2 \frac{r}{r}$$

$$\frac{1}{r} [\cos(A - \sqrt{r}) + \cos A] = \cos^2 \frac{A}{r} \rightarrow \frac{1 + \cos A}{r}$$

$$\cos(A - \sqrt{r}) + \cos A = 1 + \cos A$$

$$\cos(A - \sqrt{r}) = 1 \quad A - \sqrt{r} = 0$$

$$A = \sqrt{r}$$

$$\sqrt{1+\sin\theta} = \sqrt{1+\cos\phi} \xrightarrow{\text{قوسین صاف کی}} \sqrt{1+\cos\phi} = \sqrt{2\cos^2\frac{\phi}{2}} = \sqrt{2} |\cos\frac{\phi}{2}| = \sqrt{2} \cos\frac{\phi}{2}$$

1

$$\sin\theta + \sin\phi = \sin(\theta + \phi) + \sin(\theta - \phi) =$$

$$\sin\theta \cos\phi + \cancel{\sin\theta \sin\phi} + \sin\phi \cos\theta - \cancel{\sin\theta \sin\phi} = 2(\frac{1}{2}) \cos\frac{\phi}{2} = \cos\frac{\phi}{2}$$

$$\frac{\sqrt{2} \cos\frac{\phi}{2}}{\cos\frac{\phi}{2}} = \boxed{\sqrt{2}}$$