

$$\cot \alpha = \frac{\cos \alpha}{\sqrt{1 - \cos^2 \alpha}} = \frac{\cos \alpha}{|\sin \alpha|} \Rightarrow |\sin \alpha| \Rightarrow \text{مربع می‌کنیم}$$

$$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|} \Rightarrow \cos \alpha$$

اینست ①

$-\frac{1}{r} \sqrt{\sin^2 x} \leq 1$
 $-\frac{1}{r} \sqrt{m-1} \leq 1$
 $m-1 \leq r$
 $m \in (-1, 5]$

$$\tan x + \cot x = -3 = \frac{r}{\sin x} \Rightarrow \sin x = \frac{-r}{r} = -1 \Rightarrow \sin x \cdot \cos x = -\frac{1}{r}$$

$$(\sin x + \cos x)^2 = \sin^2 x + \cos^2 x + 2 \sin x \cdot \cos x = 1 + \frac{-2}{r} = \frac{r-2}{r}$$

$$\frac{1}{(\sin x + \cos x)(\sin^2 x + \cos^2 x - \sin x \cdot \cos x)} = \frac{1}{(\sin x + \cos x)(1 + \frac{1}{r})}$$

$$\frac{CH'}{1} = \frac{r}{1} \Rightarrow CH' = r$$

$$S = \frac{(r+1) \times r}{2} = \frac{r(r+1)}{2}$$

$$\tan\left(\frac{r\theta}{r} + 1\theta\right) \times \tan(\theta + 1\theta) = \sin\left(\frac{r\theta}{r} + 1\theta\right) \times \cos\left(\frac{r\theta}{r} - 1\theta\right) \Rightarrow$$

$$(-\cos 1\theta \times \tan 1\theta) - (-\sin 1\theta \times -\sin 1\theta) = -1 + \sin^2 1\theta = -\cos^2 1\theta \Rightarrow$$

$$K = -1$$

$$A = \sqrt{r} \times \cos\left(\frac{r}{r} + \epsilon\omega\right) \times \sin\left(\frac{r}{r} - r\omega\right) - \left(\sqrt{r} \sin\left(\frac{r}{r} + \epsilon\omega\right) \times \cos\left(\frac{r}{r} - r\omega\right)\right)$$

$$\sqrt{r} \times \frac{\sqrt{r}}{r} \times -\cos r\omega = \frac{r}{r} \cos r\omega$$

$$\sqrt{r} \times \frac{\sqrt{r}}{r} \times -\cos r\omega = -\cos r\omega$$

$$\left. \begin{array}{l} A = \frac{r}{r} \cos r\omega + \cos r\omega = \frac{r}{r} \cos r\omega \\ \frac{A}{\cos r\omega} = \frac{r}{r} = r \end{array} \right\}$$

(2)

6

$$f(x) = 14 \cos^2\left(\frac{r}{14}\right) \times \cos^2\left(\frac{r}{14}\right) \times \cos^2\left(\frac{r}{14}\right) \times \cos^2\left(\frac{r}{14}\right)$$

$$\cos \frac{r}{14} = \frac{\sqrt{4} + \sqrt{r}}{\epsilon} \xrightarrow{\text{Jok}} \frac{1 + \epsilon\sqrt{r}}{14} \xrightarrow{\text{ny}} (1 + \epsilon\sqrt{r}) \times \frac{r}{\epsilon} \times \frac{1}{\epsilon} \times \frac{1}{\epsilon} =$$

$$\frac{r\epsilon + 14\sqrt{r}}{4\epsilon} = \frac{4 + 14\sqrt{r}}{14}$$

(2)

7

$$\frac{1 - \sin x}{1 + \sin x} = \epsilon \Rightarrow r + r \sin x = 1 - \sin x \Rightarrow \sin x = -\frac{r}{\epsilon}$$

$$\cos x = -\frac{\epsilon}{\omega}$$

$$\tan \frac{x}{r} = \frac{-\frac{r}{\epsilon}}{\frac{1}{\omega}} = -\frac{r\omega}{\epsilon}$$

$$\left[\tan \frac{x}{r} = \frac{\sin x}{1 + \cos x} \right]$$

(2)

8

$$\left(\frac{\sin \theta}{1 - \cos \theta}\right) + \left(\frac{1 + \cos \theta}{\sin \theta}\right) = k \cot \frac{\theta}{r} \Rightarrow k = r$$

$$\frac{r \sin \frac{\theta}{r} \cdot \cos \frac{\theta}{r}}{\sin \frac{\theta}{r} + \cos \frac{\theta}{r} - (\cos \frac{\theta}{r} - \sin \frac{\theta}{r})} \cdot \cot \frac{\theta}{r} = \frac{r \sin \frac{\theta}{r} \cdot \cos \frac{\theta}{r}}{r \sin \frac{\theta}{r}} = \cot \frac{\theta}{r}$$

(2)

9

$$\sin \alpha = \frac{\sqrt{r}}{10} \Rightarrow \cos \alpha = \frac{-\sqrt{91}}{10} = \frac{-\sqrt{r}}{10}$$

$$\cos\left(\frac{11\pi}{\epsilon} + \alpha\right) = \cos\left(r\pi - \frac{r}{\epsilon} + \alpha\right) = -\cos\left(\frac{r}{\epsilon} - \alpha\right) = -\cos\left(-\frac{r}{\epsilon} + \frac{r}{\epsilon} - \alpha\right)$$

$$-\left(\frac{\sqrt{r}}{r} \times \frac{-\sqrt{r}}{10} + \frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{10}\right) = \frac{12}{10} = 1.2$$

(2)

10

$$(\sin \alpha + c \delta \alpha)^r = 1 + r \sin \alpha c \delta \alpha$$

$$= 1 + r \left(\frac{-1}{r} \right) = \frac{1}{r}$$

$$r\pi < f_n < f_{n+1} \rightarrow \frac{r}{f} \pi < u < \pi \quad \sin u + c \delta u < 0 \rightarrow \frac{-\sqrt{r}}{r}$$

$$\sin^r u + c \delta^r u = (\sin u + c \delta u)(\sin^{r-1} u + c \delta^{r-1} u - \sin u c \delta u) = -\frac{\sqrt{r}}{r} \left(\frac{r}{r} \right)$$

$$\hookrightarrow 1 - \left(\frac{-1}{r} \right) = \frac{r}{r}$$

$$\rightarrow \frac{1}{\sin^r u + c \delta^r u} = \boxed{\frac{-r}{r} \sqrt{r}}$$