

$$y = \tan\left(-\alpha + \frac{\pi}{r}\right) \rightarrow x = y \cdot \tan \frac{\pi}{r} + 1 \Rightarrow B(-1) \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} A \quad \begin{array}{c} B \\ \diagdown \quad \diagup \\ \frac{a}{r} \quad c \end{array} \quad \left(\frac{a}{r} \right)$$

$$T = \frac{a}{|a|} \cdot \frac{a}{r} \Rightarrow AC = \frac{a}{r}$$

$$y = x^r - (2x) \cdot x - \frac{1}{r} \frac{dx^r}{(1-x^r)} \xrightarrow{x=\frac{1}{r}} \frac{r}{r} - \frac{2 \cdot \frac{1}{r}}{r} - \frac{1 + \frac{r}{r}}{r} = 0$$

$$14 - r^2 \sin \alpha - 9 + 9 \sin^2 \alpha \Rightarrow 9 \sin^2 \alpha - r^2 \sin \alpha + 5 = 0 \Rightarrow \sin \alpha = \frac{r^2 \pm \sqrt{r^4 - 40r^2}}{18}$$

$$\sin \alpha \neq \frac{r^2}{18} \Rightarrow 1 + \tan^2 = \frac{1}{\cos^2} = \frac{1}{\frac{1}{r}} \Rightarrow \left(\frac{r}{1} \right)$$



$$\lg \sin \alpha - \lg \cos \alpha = \lg \frac{\sin \alpha}{\cos \alpha} = \lg \tan \alpha = r \Rightarrow \tan \alpha = -r$$

$$\rightarrow \begin{array}{c} r \\ \diagdown \quad \diagup \\ \sqrt{1+r^2} \end{array} \Rightarrow \begin{array}{c} \sin \alpha = \frac{r}{\sqrt{1+r^2}} \\ \cos \alpha = -\frac{1}{\sqrt{1+r^2}} \end{array} \Rightarrow \sin \alpha - \cos \alpha = \frac{r\sqrt{1+r^2}}{1}$$

$$\sin^r + \cos^r = \frac{r}{r} \rightarrow \sin^r + \cos^r = \frac{r}{r} \rightarrow \sin^r - \sin^r = \frac{r}{r} \rightarrow \sin^r \left(\frac{\cos^r - 1}{-\cos^r} \right) = -\sin^r \cos^r - \frac{1}{r}$$

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

$$\frac{r \sin + \sin^r}{r \cos^r} = \frac{\sin^r (r + \cos^r)}{r \sin^r} < 0 \Rightarrow \sin \alpha < 0$$

$$\sin \alpha = -\frac{1}{r} > 0 \Rightarrow \frac{\sin^r - 1}{\cos^r} > 0 \Rightarrow \cos \alpha < 0$$

$$\frac{r}{\sin} + \frac{r}{\cos} = 0 \rightarrow \frac{r \sin + r \cos}{\sin \cos} = 0 \rightarrow r \sin + r \cos = 0 \Rightarrow \tan \alpha = -\frac{r}{r} \Rightarrow \cot \alpha = -\frac{r}{r}$$

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

سوال

سوال: مندرجہ ذیل

$$\frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_1} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_2} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_3} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_4} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_5} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_6} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_7} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_8} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_9} \cdot \frac{(1 - \frac{1}{\lambda} \frac{S_1}{S_2})}{C_{10}}$$

$$= \frac{\frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2}}{\frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \cdot \frac{1}{\lambda} \frac{S_1}{S_2}} = \frac{1}{\lambda} \frac{S_1}{S_2} = \frac{1}{\lambda} C_1 \cdot \frac{1}{\lambda} \frac{S_1}{S_2} \rightarrow \frac{1}{\lambda} \frac{C_1}{S_1} = \frac{1}{\lambda} C_1$$

$$= \frac{1}{\lambda} C_1$$

$$S_1 + W C_1 + r \rightarrow S_1 = r - W C_1$$

$$\rightarrow C_1 + (r - W C_1) \cdot 1 \rightarrow C_1 + r + 1 C_1 - W C_1 = 1$$

$$\rightarrow 1 \cdot C_1 - W C_1 = -r$$

$$C_1 = \frac{1 + C_1}{r} \rightarrow C_1 = r C_1 - 1 \rightarrow 2 C_1 = 1 \cdot C_1 - 1$$

$$\rightarrow 1 \cdot C_1 - W C_1 - 1 = -1$$

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