

$$y = \tan\left(-2x + \frac{\pi}{4}\right)$$

۲۰. انزب

(۱)

$$\Rightarrow x=0 \Rightarrow y = \tan \frac{\pi}{4} = 1$$

(۲)

$$T = \frac{\pi}{1-2} = \left(\frac{\pi}{2}\right) \Rightarrow AC = \frac{\pi}{2} \Rightarrow S_{ABC} = \frac{\pi}{2} \times 1 \times \frac{1}{2} = \frac{\pi}{4}$$

(۲)

$$x' - (\sin \alpha)x - \frac{1}{r} C_3^2 \alpha = 0$$

$$x = \frac{2}{3} \Rightarrow \frac{4}{9} - \frac{1}{3} \sin \alpha - \frac{1}{r} C_3^2 \alpha = 0 \Rightarrow \frac{14 - (12 \sin \alpha - 9 C_3^2 \alpha)}{r_4} = 0$$

(۲)

$$12 \sin \alpha + 9(1 - \sin^2 \alpha) = 14 \Rightarrow 9 \sin^2 \alpha - 12 \sin \alpha + 5 = 0$$

$$\Rightarrow (3 \sin \alpha - 5)(3 \sin \alpha - 1) = 0 \Rightarrow \sin \alpha = \frac{1}{3} \Rightarrow C_3^2 \alpha = \frac{1}{9}$$

$$\Rightarrow 1 + \ln^2 \alpha = \frac{1}{C_3^2 \alpha} \Rightarrow \left(\frac{9}{1}\right)$$

(۳)

$$\lg(\sin \alpha) - \lg(-\cos \alpha) = \lg 3$$

(۲)

$$\Rightarrow -\frac{\sin \alpha}{\cos \alpha} = 3 \Rightarrow -\tan \alpha = 3 \Rightarrow 1 + \ln^2 = \frac{1}{C_3^2} \Rightarrow C_3^2 \alpha = 0.1$$

$$\sin^2 = \frac{9}{1}$$

$$\Rightarrow \frac{10\sqrt{10}}{10} + \frac{\sqrt{10}}{10} = \frac{11\sqrt{10}}{10} = \left(\frac{11\sqrt{10}}{10}\right)$$

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$$\sin^{\frac{r}{\omega}} \theta = \frac{r}{\omega} \Rightarrow \sin^{\frac{r}{\omega}} \theta + 1 - \sin^{\frac{r}{\omega}} \theta = \frac{r}{\omega}$$

(1)

$$\Rightarrow \sin^{\frac{r}{\omega}} \theta + \sin^{\frac{r}{\omega}} \theta + \frac{1}{\omega} = 0 \Rightarrow \omega z^r - \omega z + 1 = 0$$

$$z = \frac{\omega + \sqrt{\omega}}{1.0} \Rightarrow \cos^{\frac{r}{\omega}} \theta = 1 - z \Rightarrow \frac{\omega - \sqrt{\omega}}{1.0}$$

(2)

$$\Rightarrow \cos^{\frac{r}{\omega}} \theta = \frac{r\omega + \omega - 1.0\sqrt{\omega}}{1.0} \Rightarrow \frac{r_0 - 1.0\sqrt{\omega}}{1.0} = \frac{r - \sqrt{\omega}}{1.0}$$

$$\Rightarrow \cos^{\frac{r}{\omega}} \theta + \sin^{\frac{r}{\omega}} \theta \Rightarrow \frac{r - \sqrt{\omega}}{1.0} + \frac{\omega + \sqrt{\omega}}{1.0} = \frac{\Delta}{1.0} = 0.1$$

(3)

$$\frac{r \sin m + \sin m \cos m}{r - r \cos m} < 0 \Rightarrow \frac{\sin m (r + \cos m)}{r (1 - \cos m)} < 0$$

(4)

$$\Rightarrow \frac{r + \cos m}{r \sin m} < 0 \Rightarrow \sin m < 0$$

$$\Rightarrow \cos m$$

$$\frac{\sin m}{\cos m} - \frac{1}{\cos m} > 0 \Rightarrow \frac{-\cos m}{\cos m} > 0 \Rightarrow \cos m < 0$$

(4)

$$\frac{r}{\sin m} + \frac{r}{\cos m} = 0 \Rightarrow \frac{r \cos m + r \sin m}{\sin m \cos m} = 0 \Rightarrow r \sin m = -r \cos m$$

(5)

$$\Rightarrow r \sin m = r - r \sin^{\frac{r}{\omega}} m \Rightarrow r \sin^{\frac{r}{\omega}} m = r \Rightarrow \sin^{\frac{r}{\omega}} m = \frac{r}{r} \Rightarrow \cos^{\frac{r}{\omega}} m = \frac{r}{r}$$

$$\Rightarrow \cos m + \cos m = \frac{r}{\sin m} \Rightarrow \frac{r}{\sin m} \Rightarrow \frac{r}{\frac{r}{\sqrt{10}}} \Rightarrow \frac{-\sqrt{10}}{4}$$

Date:

Sub:

$$\frac{\sqrt{1 + \sin \alpha_0}}{\sin \alpha_0 + \sin 1} \Rightarrow \frac{\sqrt{1 + \cos \alpha_0}}{\cos 1_0 + \cos \alpha_0} \Rightarrow \frac{\sqrt{r \cos \alpha_0}}{r \cos \alpha_0 + \cos \alpha_0 - 1} \quad (V)$$

$$\Rightarrow \frac{\sqrt{r \cos \alpha_0}}{(r \cos \alpha_0 - 1)(\cos \alpha_0 + 1)} \Rightarrow \frac{\sqrt{r \cos \alpha_0}}{(r \cos \alpha_0 - 1)(r \cos \alpha_0)} \Rightarrow \frac{\sqrt{r}}{r} \times \frac{1}{(r \cos \alpha_0 - r \cos \alpha_0)} \quad (P)$$

$$\Rightarrow \frac{\sqrt{r}}{r} \times \frac{1}{\cos \alpha_0} \Rightarrow \frac{\sqrt{r}}{r} \times r = \sqrt{r} \quad \checkmark$$

(1)

$$(1 - r \sin \alpha_0) (r \cos \alpha_0 - 1) \left(\frac{1 - \tan \alpha_0}{1 + \tan \alpha_0} \right)$$

$$(\cos 1_0)(\cos \alpha_0)(\cos \alpha_0) \times \frac{\sin 1_0}{\sin 1_0} \Rightarrow \frac{1}{r} \frac{\sin \alpha_0 \cos \alpha_0 \cos \alpha_0}{\sin 1_0} \quad (P)$$

$$\Rightarrow \frac{1}{r} \frac{\sin \alpha_0 \cos \alpha_0}{\sin 1_0} \Rightarrow \frac{1}{8} \frac{\sin 1_0}{\sin 1_0} \Rightarrow \frac{1}{1} \frac{\cos 1_0 - \cos 1_0}{1} \rightarrow \frac{\cos 1_0}{1} \quad \checkmark$$

(9)

$$\sin \alpha + r \cos \alpha = r \Rightarrow \sin \alpha = r - r \cos \alpha \quad (P)$$

$$\Rightarrow \sin^2 \alpha = r - r \cos \alpha + r \cos^2 \alpha \Rightarrow 1 = r - r \cos \alpha + r \cos^2 \alpha$$

$$\Rightarrow 1 - r \cos^2 \alpha - r + r \cos \alpha = -1 \Rightarrow r \cos \alpha - r \cos^2 \alpha = -1 \quad \checkmark$$

