

تکلیف سؤال ۱۵

پارامیس بی زاویه ، دوازدهم دختر B

$$\pi_C - \pi_A = T = \frac{\pi}{|1-\nu|} = \frac{\pi}{\nu} \quad (1)$$

$$(0, B) \rightarrow B = \tan\left(0 + \frac{\pi}{\epsilon}\right) = 1$$

$$S_{ABC}^{\Delta} = \frac{1}{\nu} \times \frac{\pi}{\nu} \times 1 = \frac{\pi}{\epsilon} = 0.1718$$

$$\left(\frac{\nu}{\mu}, 0\right) \rightarrow \frac{\epsilon}{9} - \frac{\nu}{\mu} \sin \alpha - \frac{1}{\epsilon} (1 - \sin^2 \alpha) = 0 \quad (2)$$

$$\left(\frac{1}{\epsilon} \sin^2 \alpha - \frac{\nu}{\mu} \sin \alpha + \frac{\nu}{\mu^2} = 0\right) \times \mu^2 \rightarrow 9 \sin^2 \alpha - \nu \epsilon \sin \alpha + \nu = 0$$

$$\text{روسی} \rightarrow \sin^2 \alpha - \nu \epsilon \sin \alpha + \nu = 0 \quad (\sin \alpha - \nu)(\sin \alpha - \nu) = 0$$

$$\sin \alpha = \frac{1}{\mu}, \quad \frac{\nu}{\mu} \rightarrow \text{Q.U.E} \Rightarrow \sin \alpha = \frac{1}{\mu}, \quad \cos \alpha = \frac{\sqrt{11}}{\mu}$$

$$1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha} = \frac{1}{\frac{11}{9}} = \frac{9}{11}$$

$$\log^{\sin \alpha} - \log^{-\cos \alpha} = \log^{\frac{\sin \alpha}{-\cos \alpha}} = \log^{\nu} \quad (3)$$

$$\Rightarrow \tan \alpha = -\nu \quad \log^{\sin \alpha} \rightarrow \sin \alpha > 0 \quad \log^{-\cos \alpha} \rightarrow \cos \alpha < 0$$

$$1 + \tan^2 = \frac{1}{\cos^2 \alpha} \Rightarrow \cos \alpha = \frac{-1}{\sqrt{11}} \quad \sin \alpha = \frac{\nu}{\mu}$$

$$\sin \alpha - \cos \alpha = \frac{\nu}{\sqrt{11}} - \left(\frac{-1}{\sqrt{11}}\right) = \frac{\epsilon}{\sqrt{11}} = \frac{\epsilon \sqrt{11}}{11} = \frac{\sqrt{11}}{2.5}$$

$$\sin^{\epsilon} \theta + \cos^{\nu} \theta = \sin^{\epsilon} \theta + (1 - \sin^2 \theta) = \frac{\epsilon}{\delta} \quad (4)$$

$$\sin^{\epsilon} \theta - \sin^2 \theta + \frac{1}{\delta} = 0 \rightarrow \delta \sin^{\epsilon} \theta - \delta \sin^2 \theta + 1 = 0$$

$$\sin^2 \theta = \frac{\delta \pm \sqrt{\delta}}{10} \quad \text{روسی} \rightarrow \sin^2 \theta = \frac{\delta + \sqrt{\delta}}{10}$$

$$\cos^2 \theta = 1 - \frac{\delta + \sqrt{\delta}}{10} = \frac{\delta - \sqrt{\delta}}{10} \Rightarrow \cos^{\epsilon} \theta = \frac{\nu - 10\sqrt{\delta}}{100} = \frac{\nu - \sqrt{\delta}}{10}$$

$$\cos^{\epsilon} \theta + \sin^{\nu} \theta = \frac{\nu - \sqrt{\delta}}{10} + \frac{\delta + \sqrt{\delta}}{10} = 0.1$$

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$$\frac{\sin n (r + \cos n)}{r (1 - \cos^r n)} = \frac{(r + \cos n)}{r \sin n} < 0 \Rightarrow \sin n < 0 \quad (3)$$

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

كذلك في المعادلتين الباقيتين قرار بار

$$\frac{r \cos n + r^r \sin n}{\sin n \cos n} = 0 \Rightarrow r \cos n + r^r \sin n = 0 \quad (4)$$

$$\cos n = -\frac{r^r}{r} \sin n$$

$$\sin^r n + \cos^r n = \sin^r n + \frac{r}{r^r} \sin^r n = 1 \Rightarrow \frac{1}{r^r} \sin^r n = 1$$

$$\sin^r n = \frac{r}{r^r} \Rightarrow \sin n = \pm \frac{r}{\sqrt[r]{r^r}}$$

$$\cos^r n = \frac{r}{r^r} \Rightarrow \cos n = \pm \frac{r}{\sqrt[r]{r^r}}$$

$$\tan n + \cot n = \frac{1}{\sin n \cos n} = \frac{1}{\frac{r}{\sqrt[r]{r^r}} \times \frac{r}{\sqrt[r]{r^r}}} = \frac{1}{r}$$

$$\sqrt{1 + \sin 2\theta} = \sqrt{1 + r \sin^r \theta \cos^r \theta} = |\sin^r \theta + \cos^r \theta| \quad (5)$$

$$\sin 2\theta + \sin 1\theta = r \sin^r \theta \times \cos^r \theta = r \times \frac{1}{r^r} \times \cos^r \theta$$

$$\Rightarrow \frac{\sin^r \theta + \cos^r \theta}{\cos^r \theta} = \sqrt{r} \left(\frac{1}{\sqrt[r]{r}} \sin^r \theta + \frac{1}{\sqrt[r]{r}} \cos^r \theta \right)$$

$$= \sqrt{r} \left(\sin^r (\theta + \epsilon\theta) \right) = \frac{\sqrt{r} \times \sin^r \theta}{\cos^r \theta} = \sqrt{r}$$

$$1 - r \sin^r \theta = \cos^r \theta - \sin^r \theta = \cos 1\theta \quad (6)$$

$$r \cos^r 1\theta - 1 = \cos^r 1\theta - \sin^r 1\theta = \cos^r \theta$$

$$\frac{1 - \tan^r \theta}{1 + \tan^r \theta} = \frac{\cos^r \theta - \sin^r \theta}{\cos^r \theta + \sin^r \theta} = \frac{\cos^r \theta - \sin^r \theta}{\cos \epsilon\theta}$$

$$\cos 1\theta [\cos^r \theta \times \cos \epsilon\theta] = \cos 1\theta \left[\frac{1}{r^r} \times \cos^r \theta \times \cos^r \theta \right]$$

$$= \frac{1}{r^r} \cos 1\theta \times \cos^r \theta = \frac{1}{r^r} \left[\frac{1}{r^r} \cos^r \theta \times \cos 1\theta \right] = \frac{\sqrt[r]{r}}{r^r} \cos 1\theta$$

$$\sin \alpha = Y - r^u \cos \alpha$$

(9)

$$\sin^r \alpha + \cos^r \alpha = \varepsilon + 9 \cos^r \alpha - 17 \cos \alpha + \cos^r \alpha = 1$$

$$\Rightarrow 17 \cos \alpha = 10 \cos^r \alpha + r^u$$

$$\partial \cos 17 \alpha - 17 \cos \alpha = \partial \cos^r \alpha - \partial \sin^r \alpha - 17 \cos \alpha$$

$$= \partial \cos^r \alpha - \partial \sin^r \alpha - 10 \cos^r \alpha - r^u = -\partial \cos^r \alpha - \partial \sin^r \alpha - r^u$$

$$-\partial (\cos^r \alpha + \sin^r \alpha) - r^u = -\partial(1) - r^u = -\Lambda$$

$$B = VP$$

$$A + VP + C = 1\Lambda_0 \Rightarrow C = 1\Lambda_0 - VP - A(10$$

$$(\sin VP)(\sin 10\Lambda - A) = \cos^r \frac{A}{r} = 1 + \frac{\cos A}{r}$$

$$\Rightarrow Y(\sin VP)(\sin 10\Lambda - A) = 1 + \cos A$$

$$\rightarrow Y \left[\frac{1}{r} ((\cos A - r^u) - \cos(1\Lambda_0 - A)) \right] = 1 + \cos A$$

$$\Rightarrow \cos(A - r^u) + \cos A = 1 + \cos A$$

$$\Rightarrow \cos(A - r^u) = 1 \quad A - r^u = 0 \quad A = r^u$$