

1. حاصل عبارات را بدست آورید

$$\tan \frac{11\pi}{\varepsilon} + \sin \frac{10\pi}{\varepsilon} \times \cos \frac{13\pi}{\varepsilon} = -1 + \left(\frac{1}{\varepsilon}\right) = \frac{-1 \times \varepsilon + 1}{1 \times \varepsilon} = \frac{-\varepsilon + 1}{\varepsilon} = -\frac{1}{\varepsilon}$$

$11 \times 90^\circ = 990^\circ$ $10 \times 90^\circ = 900^\circ$

$$-\frac{\sqrt{10}}{10} \times \frac{\sqrt{10}}{10} + \left(-\frac{1}{\varepsilon}\right) = -\frac{10}{100} - \frac{1}{\varepsilon} = -\frac{1}{10} - \frac{1}{\varepsilon}$$

$$\tan \frac{13\pi}{4} \times \sin \frac{11\pi}{10} + \cos \frac{10\pi}{10} = \frac{1}{4} - \frac{1}{10} = \frac{10-4}{40} = \frac{6}{40} = \frac{3}{20}$$

2. $\frac{1}{\cot x + 1} = \frac{11-1}{\varepsilon+1} = \frac{10}{\varepsilon+1}$

3. $\frac{\sin x}{\cos x + \sin x} = \varepsilon$

4. $\sin x = \varepsilon \cos x$

10. $\sin x = \varepsilon \cos x \rightarrow \cos x = \frac{\sin x}{\varepsilon} \rightarrow \frac{1}{\varepsilon} = \frac{\sin x}{\cos x} = \tan x$

$$\tan = \frac{\sin}{\cos} = \frac{1}{\varepsilon}$$

$$\tan \frac{1}{\varepsilon} = 1 \rightarrow 1 + \tan \frac{1}{\varepsilon} = \frac{1}{\cos \frac{1}{\varepsilon}} \rightarrow 1 + \varepsilon = \frac{1}{\cos}$$

4. $\rho = \cos\left(\frac{11\pi}{\varepsilon} + \alpha\right)$ ، $\sin x = \frac{\sqrt{10}}{10}$ و $\frac{1}{\varepsilon} = \tan x$

$\sin = -1$

15. $\rho = \sin\left(\frac{13\pi}{\varepsilon} + \alpha\right) \leftarrow \tan = \frac{1}{\varepsilon} \leftarrow \frac{1}{\varepsilon} = \tan x$

در این مرحله

$$\frac{\sin}{\cos} = \frac{1}{\varepsilon} \rightarrow \frac{\sin - 1}{\cos} = \frac{1}{\varepsilon}$$

در این مرحله

20. $s = \frac{1}{\varepsilon} \times \sqrt{10} \times 4 \times \sin \alpha \rightarrow s = 4\sqrt{10} \sin \alpha$

✓ 6

$$4\sqrt{10} \sin \alpha = \varepsilon \leftarrow \frac{\varepsilon}{4\sqrt{10}} = \frac{\sqrt{10}}{4} \sin 90^\circ = \frac{\sqrt{10}}{4} \text{ و } \sin 18^\circ = \frac{\sqrt{10}}{10}$$

$\frac{18^\circ}{4^\circ} = 4.5$

$$n^2 - n - 4 = 0 \Rightarrow n = 4 \text{ or } n = -1 \rightarrow n^2 - 4n - 1 \rightarrow (n-9)(n+1) = 0$$

$$a(9) + 11 = \varepsilon a + 11 = 44$$

$$\frac{\mu \sin^2 \alpha + \cos^2 \alpha}{\cos^2 \alpha} = \frac{\varepsilon}{\mu} \times \cos^2 \alpha$$

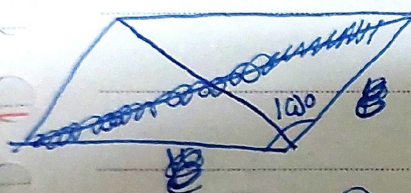
$$\tan^2 \alpha = ?$$

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$$\mu \tan^2 \alpha + 1 = \frac{\varepsilon}{\mu} \cos^2 \alpha$$

$$\mu \frac{\sin^2 \alpha}{\cos^2 \alpha} + 1 = \frac{\varepsilon}{\mu} \cos^2 \alpha \rightarrow \tan^2 \alpha + 1 = \frac{\varepsilon}{\mu} \times \frac{1}{\tan^2 \alpha} \cos^2 \alpha = \frac{\varepsilon}{\mu} \cos^2 \alpha$$

$$\tan^2 \alpha = \frac{\varepsilon}{\mu} \cos^2 \alpha - \frac{1}{\mu}$$



$$\frac{1}{\mu} a b \sin \alpha = a \varepsilon \frac{a}{b} = \frac{\varepsilon}{\mu} \rightarrow a = 4\sqrt{\mu}$$

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$$\rightarrow \frac{1}{\mu} a b \sin \alpha = a \varepsilon \frac{a}{b} \rightarrow \frac{1}{\mu} a b \sin \alpha = a \varepsilon \frac{a}{b} \rightarrow \frac{1}{\mu} a b \sin \alpha = a \varepsilon \frac{a}{b}$$

$$a \times b = 101 \rightarrow \frac{\varepsilon}{\mu} a \times b = 101 \rightarrow \frac{\varepsilon}{\mu} = 101 \rightarrow b^2 = 14^2$$

$$S_{ABC} \quad b = \sqrt{14\mu} = 9\sqrt{\mu} \rightarrow \sin 100^\circ \rightarrow \frac{1}{\mu} a b \sin \alpha = \frac{\varepsilon}{\mu} (9\sqrt{\mu} + 4\sqrt{\mu}) = 10\sqrt{\mu}$$

$$\frac{1}{\mu} a b \sin A \rightarrow \frac{1}{\mu} \times a \times b \times \sin A = \frac{\varepsilon}{\mu} \sin A$$

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$$V \times F$$

$$\mu \varepsilon$$

$$\frac{1}{\mu}$$

$$\mu \varepsilon \sin A = 11 \text{ Va}$$

$$\frac{1}{\mu}$$

$$\tan \theta = \frac{1}{\sqrt{\mu}}$$

$$S_{ADE} = \frac{1}{\mu} \times a \times b \times \sin A = \frac{\varepsilon}{\mu} \sin A \left\{ \sin A = 0.10 = \frac{1}{\mu} \right. \quad \tan \theta = \frac{1}{\sqrt{\mu}}$$

$$S_{ABC} - S_{ADE} = 11 \text{ Va} \times S_{ADE} \rightarrow S_{ADE} = \frac{AD}{AB} \times \frac{AE}{AC}$$

$$\frac{\mu \varepsilon}{\mu} \sin A - (1 \varepsilon \sin A) = \sin A (11 \text{ Va}) - 1 \varepsilon = 14 \text{ Va}$$

$$\frac{S_{BMN}}{S_{ABC}} = \frac{BM \times BN}{BA \times BC} = \frac{BM}{AB} \times \frac{BN}{BC} = \frac{1}{\mu} \rightarrow \frac{BM}{NB} = \frac{a}{a} = \frac{BM}{AN} = \frac{9}{\varepsilon}$$

Subject

Jeev Grews 1A

Date : Year

Month

Day

$$r \sin^2 \alpha + \cos^2 \alpha = \frac{e}{\mu}$$

$$\cos^2 \alpha = 1 - \sin^2 \alpha = \frac{r}{\mu}$$

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$$r \sin^2 \alpha + 1 - \sin^2 \alpha = \frac{e}{\mu} \rightarrow \sin^2 \alpha = \frac{e}{\mu} - 1 = \frac{1}{\mu}$$

$$\tan \alpha = \frac{\sin \alpha}{\cos \alpha} = \frac{1}{\mu} = \frac{1}{r}$$

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$$\sin \alpha = \frac{\sqrt{r}}{r} \times \frac{1}{\mu} = \frac{1}{\sqrt{r}} \times \frac{1}{\mu} = \left(\frac{\sqrt{r}}{10} \right)^{\mu} + \cos^2 \alpha = 1 \rightarrow \cos^2 \alpha = 1 - \frac{1}{10} \rightarrow \frac{9}{10}$$

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$$\cos \alpha = \frac{\sqrt{r}}{10}$$

$$\frac{1}{10} = \frac{1}{10} \times \frac{9}{10} = \left(\frac{9}{10} \right)^{\mu}$$

$$\tan \alpha = \frac{1}{\sqrt{r}} \sin \left(\frac{1}{\sqrt{r}} x + \alpha \right) \rightarrow \frac{1}{\sqrt{r}} \times \frac{1}{\mu} + \frac{1}{\sqrt{r}} \times \left(\frac{\sqrt{r}}{10} \right)^{\mu}$$

$$\frac{1}{10} + \left(\frac{1}{10} \right)^{\mu} = \frac{1}{10} \left[1 + \tan^2 \alpha \right] = \frac{1}{10} \left[1 + \frac{1}{r} \right] = \frac{1}{10} \left[\frac{r+1}{r} \right] = \frac{1}{10} \left[\frac{10+1}{10} \right] = \frac{11}{100}$$

$$\cos^2 \alpha = \frac{1}{10} \rightarrow \sin^2 \alpha = \frac{9}{10}$$

$$\frac{1}{\cos^2 \alpha} = \frac{1}{1 - \sin^2 \alpha} = \frac{1}{1 - \frac{9}{10}} = \frac{1}{\frac{1}{10}} = 10$$

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$$|\cos \alpha|$$

$$\frac{1}{|\cos \alpha|} = \frac{1}{\cos \alpha} = \frac{1}{1 + \sin \alpha}$$

$$1 - \sin \alpha = 1 + \sin \alpha$$

$$\sin \alpha = 0$$

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

$$\cot \alpha = -1$$