

Q1

$$\begin{aligned} & \tan \frac{11\pi}{4} + \sin 10\pi + \cos 12\pi \\ & \left[\tan\left(\frac{11\pi}{4} + \frac{\pi}{4}\right) + \sin\left(\frac{11\pi}{4} + \frac{\pi}{4}\right) \cos\left(\frac{11\pi}{4} + \frac{\pi}{4}\right) \right] \\ & \left(\tan \frac{12\pi}{4} \right) + \sin\left(\frac{12\pi}{4}\right) \cos\left(\frac{12\pi}{4}\right) = 1 + \frac{1}{r} \cdot \frac{1}{r} \end{aligned}$$

(1)

P1

$$\begin{aligned} & \tan \frac{11\pi}{4} + \sin \frac{11\pi}{4} + \cos \frac{11\pi}{4} \\ & \tan\left(\frac{11\pi}{4} + \frac{\pi}{4}\right) + \sin\left(\frac{11\pi}{4} + \frac{\pi}{4}\right) \cos\left(\frac{11\pi}{4} + \frac{\pi}{4}\right) \\ & \tan\left(\frac{12\pi}{4}\right) + \sin\left(\frac{12\pi}{4}\right) \cos\left(\frac{12\pi}{4}\right) \\ & = \frac{\sqrt{r}}{r} + \frac{\sqrt{r}}{r} \times \frac{1}{r} = \frac{1}{r} + \frac{1}{r} \end{aligned}$$

$$\cot m \times r \Rightarrow \frac{\cos}{\sin} \times r \Rightarrow \cos m \times r \sin m$$

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

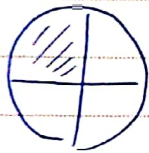


$$\cos^2 \alpha + (r \cos \alpha)^2 = 1$$

$$\cos^2 \alpha + r^2 \cos^2 \alpha = 1$$

$$\Delta \cos^2 \alpha \leq 1 \quad \cos^2 \alpha \leq \frac{1}{r^2} \quad \cos = \frac{1}{\sqrt{r}} \leq \frac{\sqrt{0}}{8}$$

cos α ≤ 1/r, sin α ≤ r cos α (r)



$$\cos\left(\frac{11\pi}{4} + \alpha\right) \leftarrow \sin \alpha \leq \frac{\sqrt{r}}{r} \leftarrow \text{r} \text{ راجع } \leftarrow (1) (r)$$

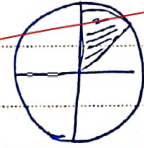
$$\left(\frac{\sqrt{r}}{1}\right)^2 + \cos^2 r = 1 \Rightarrow \frac{r}{1} + \cos^2 r = 1$$

$$\Rightarrow -\cos \Rightarrow \sqrt{\frac{9\pi}{100}}$$

$$\left(\frac{11\pi}{4} + \frac{\pi}{4}\right) \Rightarrow$$

$$\sin\left(\frac{11\pi}{4} + \alpha\right) \cot \alpha \leq \tan \alpha \leq \frac{1}{r} \quad \text{راجع اول } (-)$$

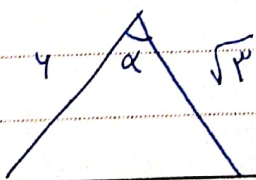
$$\left(\frac{11\pi}{4} + \frac{\pi}{4} + \alpha\right) \Rightarrow \frac{r}{r} < \sin \alpha < 1$$



$$r \sin m + \cos^2 m = \frac{r}{r}$$

$$r \sin m + 1 - \sin^2 m = \frac{r}{r} \Rightarrow \sin^2 m + 1 = \frac{r}{r} \quad \sin^2 m \leq \frac{1}{r} \quad \frac{\cos^2 r + \sin^2 r}{r} = 1$$

$$\frac{1}{r} \leq \frac{1}{r} \leq \tan^2 m$$



$$\frac{1}{r} \times \frac{\sqrt{r}}{r} \times \sin \alpha = r/r$$

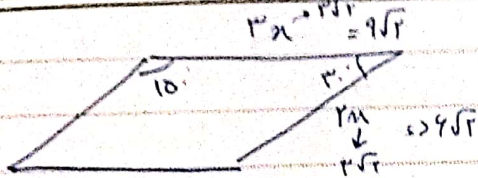
$$r \sqrt{r} \sin \alpha \leq r/r$$

$$\sin \alpha \leq \frac{\sqrt{r}}{r}$$

$$r < \sin \alpha < \frac{r}{r}$$



Arman

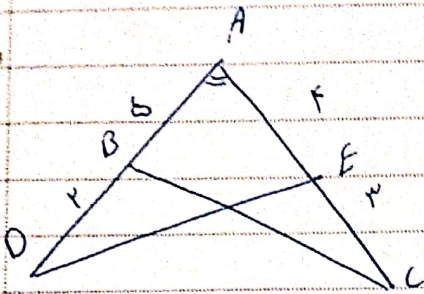


$$r_m \times r_m \times \sin \varphi \cdot d\varphi$$

$$r_g n^r \times \frac{1}{x} = 5 \text{ dH}$$

$$\begin{array}{l} \pi^2 \leq 17 \\ \pi \leq \sqrt{17} \\ \pi \leq \sqrt{2} \end{array}$$

$$\underbrace{(r \times 9\sqrt{r})}_{18\sqrt{r}} + \underbrace{(r \times 9\sqrt{r})}_{18\sqrt{r}} = r \cdot \sqrt{r}$$



$$S_{APF} = \frac{1}{r} \times \vec{r} \times \vec{V} \times \sin A = \frac{rV}{r} \sin A$$

$$S_{ABC} = \frac{1}{2} \times 20 \times 10 \times \sin A = \frac{100}{2} \sin A$$

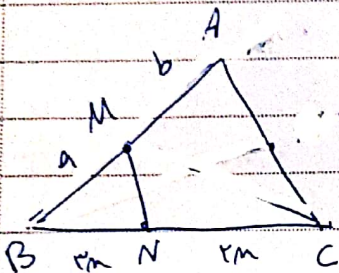
$$\frac{r_D \sin A}{r} - \frac{r_A \sin A}{r} = 1/v_0$$

$$\underline{v \sin A} = 1/v_0$$

$$\frac{1}{2} \sin A = \frac{1}{2}$$

$$\tan = \frac{5}{5}$$

tarb = $\frac{1}{\sqrt{2}}$



$PIS, V, \mu NC$

$$S_{ABC} = \frac{1}{2}(a+b)(5m)(\sin B)$$

SBMN $\frac{1}{r}(a)(r_m) \sin \theta$

$$\Delta a_n + \Delta b_m \leq 3$$

मान

$$OAM + OBM \rightarrow OM$$

~~abx s fam~~

$$\frac{a}{b} = \frac{a'}{b'} = \frac{a''}{b''}$$

(1.) اگر $\sin \alpha = \frac{1}{\sqrt{5}}$ ہے تو $\tan \alpha = \frac{1}{2}$ ہے۔

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

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

$$\frac{-\cancel{\sin \alpha}}{|\cos \alpha|} \cdot \frac{\cancel{\sin \alpha}}{\cos} \Rightarrow \cos \ominus$$

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