

الف)  $\tan \frac{11\pi}{4} + \sin \frac{10\pi}{4} + \cos \frac{13\pi}{4} = -1 - \sqrt{2}$   
 $-\tan \frac{\pi}{4} - \sin \frac{\pi}{4} - \cos \frac{\pi}{4} = -1 - \frac{\sqrt{2}}{2} - \frac{\sqrt{2}}{2} = -1 - \sqrt{2}$

ب)  $\tan \frac{13\pi}{4} + \sin \frac{11\pi}{4} + \cos \frac{10\pi}{4} = \frac{\sqrt{2}}{2} - \frac{1}{2} = -\frac{1-\sqrt{2}}{2}$   
 $-\frac{\sqrt{2}}{2} \times -\frac{1}{2} + \frac{1}{2} = \frac{\sqrt{2}-1}{2}$

$\frac{\tan \alpha - \tan \beta}{\cos \alpha + \sin \alpha} = \frac{\tan \alpha - 1}{\cos \alpha + 1} = \frac{12}{13} = \frac{11}{10} = \frac{11}{10}$   
 $\tan \alpha = 1$

$\sin \alpha = \frac{1}{\sqrt{2}}$

$\sin \alpha > 0$  و  $\cos \alpha > 0$

$\sin^2 \alpha + \cos^2 \alpha = 1 \Rightarrow \cos^2 \alpha = 1 - \frac{1}{2} = \frac{1}{2} \Rightarrow \cos \alpha = \pm \frac{1}{\sqrt{2}}$

$\cos \alpha = \frac{1}{\sqrt{2}}$   
 $\cos \alpha = -\frac{\sqrt{2}}{2}$

$\sin \alpha = \frac{\sqrt{2}}{2}$   $\cos(\frac{13\pi}{4} + \alpha) = ?$   $\cos \alpha \Rightarrow \sin^2 \alpha + \cos^2 \alpha = 1 \Rightarrow \frac{1}{2} + \cos^2 \alpha = 1 \Rightarrow \cos^2 \alpha = \frac{1}{2} \Rightarrow \cos \alpha = \pm \frac{\sqrt{2}}{2}$

$\cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta = \left(\frac{\sqrt{2}}{2}\right)\left(-\frac{\sqrt{2}}{2}\right) - \left(\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{2}}{2}\right) = -\frac{2}{2} = -1$

$\sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta = \left(\frac{\sqrt{2}}{2}\right)\left(-\frac{\sqrt{2}}{2}\right) + \left(\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{2}}{2}\right) = -\frac{2}{2} + \frac{2}{2} = 0$   
 $\tan \alpha = \frac{1}{\sqrt{2}}$   $\sin(\frac{13\pi}{4} + \alpha) = ?$   $\sin \alpha = \frac{1}{\sqrt{2}}$   $\cos \alpha = \frac{1}{\sqrt{2}}$   $\sin^2 \alpha + \cos^2 \alpha = 1$   $\sin \alpha = \frac{1}{\sqrt{2}}$   $\cos \alpha = \frac{1}{\sqrt{2}}$

$\sin^2 \alpha + \cos^2 \alpha = \frac{1}{2} + \frac{1}{2} = 1 \Rightarrow \sin \alpha = \frac{1}{\sqrt{2}}$   $\cos \alpha = \frac{1}{\sqrt{2}}$

$\tan \alpha = \frac{\sin \alpha}{\cos \alpha} = \frac{\frac{1}{\sqrt{2}}}{\frac{1}{\sqrt{2}}} = 1$

$$\cancel{J_{ABC}^A} = \frac{1}{r} ab \sin \alpha = \frac{r \times \sqrt{r} \times \sin \alpha}{r} = \epsilon_{10}$$

$$r, \sqrt{r} \sin \alpha = \epsilon_{10}$$

$$\mu \sqrt{\mu} \int \dot{n}_\alpha = \epsilon_{10}$$

$$\sqrt{\mu} \rho'_{\text{max}} = \frac{\mu}{c}$$

$$\sin \alpha = \frac{\sqrt{2}}{2}$$

2

$$\Rightarrow \frac{K_0}{q_0} = 1$$

Q

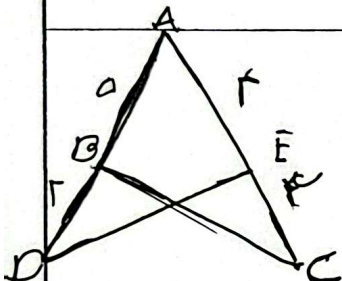
٤

$$\int_{ABCD} \vec{a} \cdot d\vec{s} = \frac{1}{r} ab \sin \alpha = \frac{r\alpha \cdot r\alpha \times \sin \alpha}{\sin \alpha} = 0 \quad \text{or} \quad \frac{r\alpha}{r} \Rightarrow \alpha \Rightarrow \alpha = r\sqrt{r}$$

$$\rho = r(r_x + r_x) = 1 \cdot x = \boxed{r \cdot \sqrt{r}}$$

①

Y



$$\Delta P_{ABC, ADF}^{\text{S}} = 1/8 = \frac{1}{F} \sigma_{\text{max}} (V_{KD} - V_{KE}) = r_o \sigma_{\text{max}} = 1/8$$

$$\tan \alpha = \frac{\sqrt{F}}{\sqrt{f}}$$

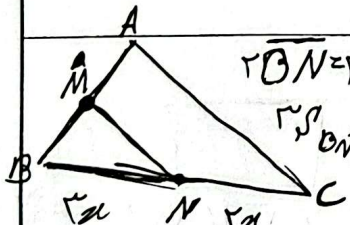
$$\tan \alpha = -\frac{\sqrt{2}}{\sqrt{2}}$$

$$\begin{aligned} \angle \text{C}_2 \alpha &= \frac{\sqrt{r}}{r} \angle \text{C}_1 \alpha = 10^\circ \angle \alpha \quad \sin \alpha = \frac{1}{\sqrt{2}} \\ \angle \text{C}_2 \alpha &= \frac{\sqrt{r}}{r} \angle \text{C}_1 \alpha = 10^\circ \angle \alpha \end{aligned}$$

جسٹس آف دی ایڈمونیسٹریشن  
قابل قبول نہیں

③

人



$$\overline{rON} = \overline{rCN}$$

$$\int_{\gamma} \omega_{MN}^A = \int_{ABC} \omega_{MN}^A = \frac{1}{\pi} \int_{\gamma} \omega_{MN}^A \cdot \overline{BC} \cdot \overline{AB} = \left( \frac{1}{\pi} \int_{\gamma} \omega_{MN}^A \cdot \overline{BN} \cdot \overline{BM} \right)$$

$$\cancel{DC} \cdot AB = r \sum \cancel{DC} \cdot BM$$

$$\overline{AB} = \frac{9}{0} \overline{BM}$$

$$\overline{BM} = \frac{1}{2} \overline{AB}$$

$$\frac{\overline{BM}}{\overline{AM}} = \frac{\frac{1}{9} \overline{AB}}{\frac{1}{9} \overline{AB}} = \frac{1}{1} = 1 \text{ ro}$$

9

$$\frac{|\sin \alpha|}{\cos \alpha} = \frac{1}{\cot \alpha}, \quad \frac{1}{\sqrt{\cos \alpha}} \leftarrow \tan \alpha = \frac{1 + |\sin \alpha|}{|\cos \alpha|}$$

آهتا عمان و نام سوم است

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

$$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 + \sin \alpha}{|\cos \alpha|} \Rightarrow \cos \alpha < 0$$

⑦

$$\sin \alpha < -$$



1.