

Y. O.

الف) $\tan\left(\frac{\pi}{2} - \frac{z}{2}\right) + \sin\left(\frac{\pi}{2} - \frac{z}{2}\right)$ ①

$$\cos\left(\pi + \frac{\pi}{2}\right)$$

$$= \tan\left(\frac{\pi}{3}\right) + \sin\left(\frac{\pi}{3}\right) - \cos\left(\frac{\pi}{3}\right) =$$

$$-1 + \frac{-\sqrt{r}}{r} \times -\frac{\sqrt{r}}{r} = \underline{\underline{-\frac{1}{r}}}$$

روز بزرگداشت مولوی

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$$ب) \tan\left(\frac{12\pi}{4}\right) \sin\left(\frac{5\pi}{4}\right) + \cos\left(\frac{12\pi}{4}\right)$$

$$= \tan\left(\frac{12\pi}{4}\right) \cdot \sin\left(\frac{5\pi}{4}\right) + \cos\left(\frac{12\pi}{4}\right)$$

$$= \frac{1}{\sqrt{2}} \times -\frac{\sqrt{2}}{2} + \frac{1}{2} = 0$$

$$\frac{P \cos u - \sin u}{\sin u} = \frac{1P - 1}{P + 1} = \frac{11}{5}$$

$$\cot u = \frac{\cos u}{\sin u}$$

$$\tan = \frac{\sin}{\cos} \Rightarrow \frac{P \cos}{\cos} = P$$

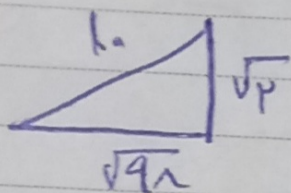
$$1 + \tan^2 = \frac{1}{\cos^2}$$

$$1 + P = \frac{1}{\cos^2} \Rightarrow \cos^2 = \frac{1}{5}$$

$$\cos = \frac{-\sqrt{5}}{5}$$

لہذا صفاست زیرا کہ ربع چہارم ہے

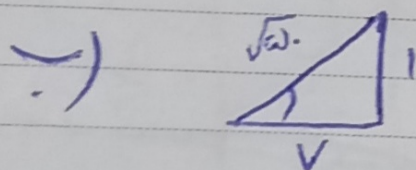
(15) (a) $\cos\left(\frac{\pi z}{\xi} + \alpha\right) = \cos \frac{\pi z}{\xi} \times \cos \alpha$



$$\cos = \frac{-\sqrt{4}}{1}$$

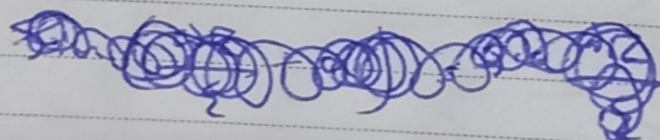
$$- \sin \frac{\pi z}{\xi} \alpha \sin \alpha$$

$$\frac{-\sqrt{2}}{1} \left(\frac{-\sqrt{4} + \sqrt{2}}{1} \right) = \frac{-\sqrt{2}}{1} \left(\frac{-1\sqrt{2}}{1} \right) = \frac{\xi}{\omega}$$



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

$$\cos \alpha = \frac{V\sqrt{\omega}}{\omega}$$



$$\sin\left(\frac{\omega z}{\xi} + \alpha\right) = \sin \frac{\omega z}{\xi} \cos \alpha + \cos \frac{\omega z}{\xi} \sin \alpha$$

$$\frac{-\sqrt{2}}{1} \times \frac{V\sqrt{\omega}}{\omega} + \frac{-\sqrt{2}}{1} \times \frac{\sqrt{\omega}}{\omega} = \frac{-\xi}{\omega}$$

$$S_{ABC} = \frac{1}{2} \times AB \times AC \times \sin A =$$



$$\frac{1}{\rho} \times \omega \times V \times \sin A = \frac{v \omega}{\rho} \sin A$$

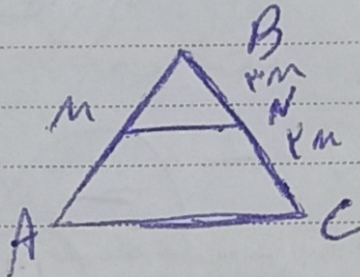
$$S_{ADE} = \frac{1}{2} \times AD \times AE \times \sin A =$$

$$\frac{1}{r} dV \propto \Sigma \times 8 \sin A \propto \frac{r \Delta}{r} \sin A$$

$$S_1 - S_2 \Rightarrow \frac{V}{r} \sin A = \frac{100}{100}$$

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

об $A_{\text{нр}}$ $A = \frac{12}{4} \rightarrow \tan A = \frac{\sqrt{12}}{4}$



$$S_{ABC} = \frac{1}{2} \times AB \times \omega \times \sin B$$

$$\delta_{BUN} = \frac{1}{r} \times BM \times r_m \times \sin \beta$$

$$\frac{\omega}{r} \times \frac{AB}{BM} = r$$

$$\frac{AB}{BM} = \frac{q}{\omega} \rightarrow \frac{BM}{AM} = \frac{\omega}{\Sigma}$$

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

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

$$\frac{-\sin x}{|\cos x|} = \frac{\sin x}{\cos x} \Rightarrow \cos x < 0$$

$$\frac{|\sin x|}{\cos x} = -\tan x$$

$$\hookrightarrow \sin x < 0$$

per $\sin$