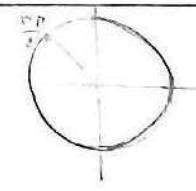


نام و نام خانوادگی پرینال ددوال پور پاسخنامه تشریحی تکلیف شماره ۱۸۰۰ کلاس دهه دوم آ

$1) \tan \frac{11\pi}{8} + \sin \frac{15\pi}{8} \cos \frac{13\pi}{8}$ $-1 + \left(+\frac{\sqrt{2}}{2}\right) \times \left(+\frac{\sqrt{2}}{2}\right) = -1 + \frac{1}{2} = -\frac{1}{2}$	✓
$2) \tan \frac{7\pi}{4} \sin \frac{11\pi}{6} + \cos \frac{10\pi}{3}$ $\frac{\sqrt{2}}{2} \times \left(-\frac{\sqrt{3}}{2}\right) + \left(-\frac{1}{2}\right) \rightarrow -\frac{\sqrt{6}}{4} - \frac{1}{2} = -1$	✓
$\frac{p \cos x - \sin x}{\cos x + \sin x} = \frac{p(1^c \sin x) - \sin x}{1^c \sin x + \sin x} = \frac{11 \sin x}{\omega \sin x} = \frac{11}{\omega}$ $c = \frac{\cos x}{\sin x} = 1^c$	✓
$\cos^p \alpha + \sin^p \alpha = 1$ $1^c \cos^p \alpha$ $\omega \cos^p \alpha = 1$ $\cos^p \alpha = \frac{1}{\omega}$ $\cos \alpha = \frac{1}{\sqrt{\omega}} \rightarrow p \cos \alpha = \frac{1}{\sqrt{\omega}}$	✓
$\cos\left(\frac{11\pi}{4} + \alpha\right) = \cos \frac{11\pi}{4} \cos \alpha - \sin \frac{11\pi}{4} \sin \alpha$ $\cos \alpha = -\sqrt{1 - \left(\frac{1}{\sqrt{10}}\right)^2} = -\sqrt{1 - \frac{1}{10}} = -\frac{\sqrt{9}}{10}$ $\cos\left(\frac{11\pi}{4} + \alpha\right) = \left(-\frac{\sqrt{2}}{2}\right)\left(-\frac{\sqrt{10}}{10}\right) - \left(-\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{2}}{10}\right) = \frac{11}{10} - \frac{1}{10} = \frac{10}{10} = 1$ 	✓
$\tan^p x = \frac{\sin^p x}{\cos^p x} = \frac{1}{\frac{1}{p}} = p$ $\sin^p x + \sin^p x + \cos^p x = \frac{1}{p}$ $\sin^p x = \frac{1}{p}$ $\cos^p x = \frac{1}{p}$	✓

Lah sino



$$\frac{1}{r} \times \sqrt{p} \times \sin \alpha = F_1 \omega$$

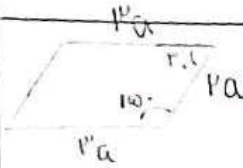
$$\sqrt{p} \sin \alpha = F_1 \omega$$

$$\left(\frac{\sqrt{p}}{r} \right) \rightarrow \gamma_0$$

$$1/\alpha_0 - \gamma_0 (1/\alpha_0)$$

$$\frac{1/\alpha_0}{\gamma_0} = 1$$

ε



$$S = ab \sin \theta$$

$$a = r/\alpha \quad b = \sqrt{p}k$$

$$P = r(\gamma \sqrt{p} + \gamma \sqrt{p}) = r(10\sqrt{p}) = 10\sqrt{p}$$

$$\sin 100^\circ = \sin 80^\circ = \frac{1}{r}$$

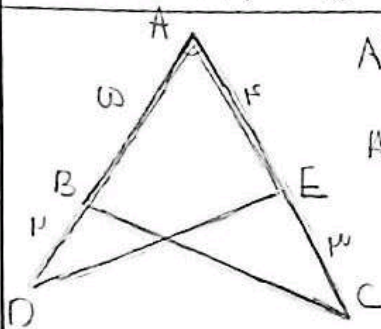
$$(1/\alpha)(\sqrt{p}k)(\frac{1}{r}) = \sqrt{p}k$$

$$\omega \varepsilon = \sqrt{p}k \quad k' = 1/\alpha \quad k = \sqrt{p}$$

$$\sqrt{p} \propto \sqrt{p}$$

$$\sqrt{p} \propto \sqrt{p}$$

γ

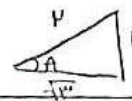


$$ABC = \frac{1}{r} \times \omega \times V \times \sin A = 1/\omega \sin A$$

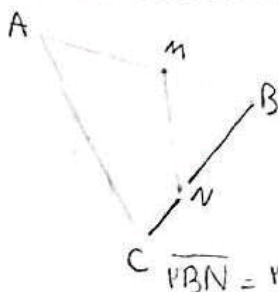
$$ADE = \frac{1}{r} \times \sqrt{p} \times V \times \sin A = 1/\sqrt{p} \sin A$$

$$1/\omega \sin A - 1/\sqrt{p} \sin A = 1/\omega \sin A = 1/\omega$$

$$\tan \hat{A} = \frac{1}{\sqrt{p}}$$



✓



$$SABC = \sqrt{p} S_{BMN}$$

$$\frac{1}{r} AB \times \frac{1}{r} BC \propto \sin B = \sqrt{p} \Rightarrow AB \propto \frac{1}{r} NC = \sqrt{p}$$

$$\frac{1}{r} (BN) \times BM \times \sin B = \frac{1}{r} NC \times BN$$

$$\frac{\omega}{r} \frac{AB}{BM} = \sqrt{p} \Rightarrow \frac{AB}{BM} = \frac{\sqrt{p} \omega}{\omega} = \frac{\sqrt{p}}{\omega}$$

$$\frac{BM}{AM} = \frac{\omega}{\sqrt{p}}$$

$$\frac{\omega}{\sqrt{p}}$$

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

$$|\sin \alpha| = -\sin \alpha$$

$$|\sin \alpha| = -\sin \alpha$$

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

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

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

$$\cos \alpha = -$$

1.

Scanned with

CS CamScanner

Subject

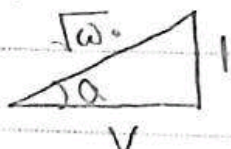
Date : Year _____ Month _____ Day _____

سوال ۴ ب

$$\tan \alpha = \frac{1}{\sqrt{p}} \quad \sin\left(\frac{13\pi}{\varepsilon} + \alpha\right) = \sin\left(\pi + \frac{\pi}{\varepsilon} + \alpha\right) = \sin\left(\frac{\omega\pi}{\varepsilon} + \alpha\right)$$

$\downarrow$
 $\pi + \pi \leftarrow \frac{13\pi}{\varepsilon}$

$$\sin\left(\frac{\omega\pi}{\varepsilon} + \alpha\right) = \underbrace{\sin\frac{\omega\pi}{\varepsilon}}_{-\frac{\sqrt{p}}{p}} \cos \alpha + \underbrace{\cos\frac{\omega\pi}{\varepsilon}}_{-\frac{\sqrt{p}}{p}} \sin \alpha$$

$$\sin\left(\frac{\omega\pi}{\varepsilon} + \alpha\right) = \sin \alpha = \frac{1}{\omega\sqrt{p}} = \frac{\sqrt{p}}{10}$$


$$\left(-\frac{\sqrt{p}}{p}\right)(\cos \alpha) + \left(-\frac{\sqrt{p}}{p}\right)\sin \alpha = \cos \alpha = \frac{V\sqrt{p}}{10}$$

$$\left(-\frac{\sqrt{p}}{p}\right)(\sin \alpha + \cos \alpha) = -\frac{\sqrt{p}}{p}\left(\frac{V\sqrt{p}}{10} + \frac{\sqrt{p}}{10}\right) =$$

$$-\frac{\sqrt{p}}{p} \cdot \frac{1\sqrt{p}}{10} = -\frac{A \cdot K}{K_0 \cdot 10} = -\frac{\varepsilon}{\omega} \quad \sin\left(\frac{13\pi}{\varepsilon} + \alpha\right) = -\frac{K}{\omega}$$