

نام و نام خانوادگی ماهان سیبخت الهی پاسخنامه تشریحی تکلیف شماره ۱۶۰۰ کلاس دهم دبیرستان سینما

الف) $27^\circ = (x) \text{ rad} \Rightarrow x \times \frac{\pi}{180} = \left(\frac{27\pi}{180} \right)$

$$\hookrightarrow 1 \text{ rad} = (x) \text{ rad} \Rightarrow \frac{\omega}{\cancel{\omega_0}} \times \frac{\pi}{\cancel{\omega_0}} = \frac{\cancel{\omega} \pi}{\omega_0}$$

$$c) \frac{\Delta \pi}{1^\circ} \text{ rad} = (x)^\circ \Rightarrow \frac{\Delta \pi}{1^\circ} \times \frac{1^\circ}{\pi} = (1 \text{ rad})^\circ$$

$$c) \frac{r\pi}{9} \text{ rad} = (x)^\circ \Rightarrow \frac{r\pi}{9} \times \frac{180}{\pi} = 1^\circ$$

$$\frac{D}{W_0} = \frac{G}{Y_{00}} = \frac{Rad}{\pi}$$

$$10a + 11\Delta a + 11\Delta a = 1\Delta a = 11 \Rightarrow \boxed{a = f^9}$$

$$\frac{\frac{1 \Delta \alpha}{9}}{\frac{100}{1}} = \frac{1 \Delta \alpha}{100} = \frac{0}{100} \Rightarrow 0 = 1 \Delta \alpha$$

$$\frac{\frac{\alpha \pi}{\lambda}}{\frac{\pi}{\lambda}} = \frac{\alpha \pi}{\lambda \pi} = \frac{\alpha}{\lambda} = \frac{D}{\lambda_0} \Rightarrow D = \lambda_0 \alpha$$

$$\frac{\cos 40^\circ}{\frac{1}{r}} + \frac{\cos 50^\circ}{\frac{\sqrt{r}}{r}} - \frac{\sin 40^\circ}{\frac{\sqrt{r}}{r}} - \frac{\sin 50^\circ}{\frac{1}{r}} - \frac{\tan 40^\circ}{1} + \frac{\cot 40^\circ}{1} = 1$$

$$\frac{\tan^P \theta_0^\circ + \tan^P \theta_2^\circ + \tan^P \theta_4^\circ}{\cot \theta_0^\circ - \cot \theta_4^\circ} \Rightarrow \frac{\frac{1}{\sqrt{3}} + 1 + \sqrt{3}}{\frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}}} = \frac{\frac{1}{\sqrt{3}}}{\frac{1}{\sqrt{3}} - \frac{1}{\sqrt{3}}} = \frac{1\sqrt{3}}{0}$$

$$= \sin 19^\circ \cos 9^\circ + \cos 19^\circ \sin 9^\circ = \sin^r \theta$$

$$\frac{\frac{1}{p} \times \frac{1}{p}}{-\frac{1}{e} + \frac{p}{e}} = \frac{\frac{\sqrt{p}}{p} \times \frac{\sqrt{p}}{p}}{\frac{p}{e}} = \frac{1}{p} = \sin^2 \theta \begin{cases} \theta = 45^\circ \\ \theta = 135^\circ \end{cases}$$

$$\tan F_2^\circ = 1$$

$$\tan 135^\circ = \textcircled{-1}$$

$$\frac{r \tan \phi_0 (1 - \tan^2 \phi_0)}{(1 - \cot^2 \phi_0)^r} = \tan \theta \Rightarrow \frac{r \left(\frac{1}{\sqrt{3}}\right) \left(1 - \frac{1}{3}\right)}{\left(1 - \frac{1}{3}\right)^r} = \frac{\frac{1}{3} \times \frac{1}{3}}{\frac{1}{3}} = \frac{1}{3}$$

$$\frac{\frac{\mu}{\sqrt{\mu}}}{\frac{\sqrt{\mu}}{\sqrt{\mu}}} \times \frac{\sqrt{\mu}}{\sqrt{\mu}} = \sqrt{\mu} = \tan \theta \Rightarrow \theta = 45^\circ$$

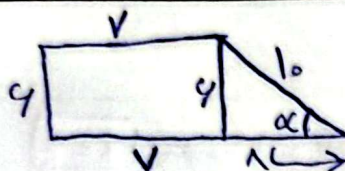
$$\cancel{\%} \times \frac{\pi}{\cancel{100}} = \left(\frac{\pi}{\mu} \right)$$

$$\frac{p \sin \theta - \cos \theta}{\sin \theta - f \cos \theta}$$

$$\tan \theta = \omega \Rightarrow \frac{\sin \theta}{\cos \theta} = \frac{\omega}{1}$$

$$\frac{p(\omega) - 1}{\omega - f(1)} = \frac{1f}{1} = \textcircled{1f}$$

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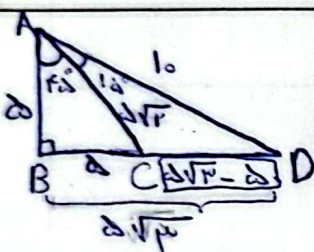


$$\sin \alpha = \frac{4}{5} = \frac{\text{مقابلہ}}{\text{ہیپوتنوز}}$$

$$5^2 = 4^2 + x^2 \Rightarrow x = 3$$

$$\text{bed} = 4 + V + 1 + 5 + V = \textcircled{11}$$

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$$1\alpha + f\alpha = 90^\circ$$

$$\cos 90^\circ = \frac{1}{p} \Rightarrow \frac{1}{p} = \frac{\omega}{1}$$

$$5^2 = 4^2 + x^2 \Rightarrow x = 3$$

$$\cos f\alpha = \frac{\sqrt{r}}{p} \Rightarrow \frac{\sqrt{r}}{p} = \frac{\omega}{\frac{5}{4}} \Rightarrow \sqrt{r} = \omega \sqrt{p}$$

$$(2\sqrt{r})^2 = 4^2 + x^2 \Rightarrow x = 2$$

$$CD = 2\sqrt{3} - 2 = 2(\sqrt{3} - 1)$$

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الف) ناحیہ ۳

ب) ناحیہ ۲

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$$\tan x = \frac{\sin x}{\cos x} = \frac{1}{p} \Rightarrow \sin x = \frac{1}{p} \cos x$$

$$\sin^2 x + \cos^2 x = 1 \Rightarrow \left(\frac{1}{p} \cos x\right)^2 + (\cos x)^2 = 1 \Rightarrow \frac{1}{p^2} \cos^2 x + \cos^2 x = \frac{10}{9} \cos^2 x = 1$$

$$\cos^2 x = \frac{9}{10} \Rightarrow \cos x = -\frac{3}{\sqrt{10}}$$

$$\sin x = \frac{1}{p} \cos x = \frac{1}{p} \left(-\frac{3}{\sqrt{10}}\right) = \textcircled{-\frac{1}{\sqrt{10}}}$$

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