

Subject:

الف) $2V = \frac{27^\circ}{180} = \frac{\pi}{R}$ $\frac{2\pi}{R} = 0.18V$

ب) 125° $125 = \frac{\pi}{180}$ $\frac{25\pi}{4} \approx 2/18$

ج) $\frac{d\pi}{12} \text{ rad} = \frac{d\pi}{12} \times \frac{180}{\pi} = 15^\circ$

د) $\frac{4\pi}{9} \text{ rad} = \frac{4\pi}{9} \times \frac{180}{\pi} = 80^\circ$

$\frac{125\pi}{9} \times \frac{9}{180} = 12/5\pi$ $\frac{5\pi}{9} \times \frac{180}{\pi} = 27/5\pi$

$100 + 22/5\pi + 12/5\pi = 180$ $45\pi = 180$ $\pi = 4^\circ$

ا) $(\frac{1}{4} \times \frac{5\pi}{4}) - (\frac{5\pi}{4} \times \frac{1}{4}) = \frac{5\pi}{4} - \frac{5\pi}{4} = 1$

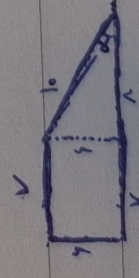
ب) $\frac{\frac{1}{4} + 1 + \frac{1}{4}}{\sqrt{1 - \frac{5\pi}{4}}} = \frac{\frac{1}{2} + 1}{\sqrt{1 - \frac{5\pi}{4}}} = \frac{1.5}{\sqrt{1 - \frac{5\pi}{4}}}$

$\frac{1}{4} \times \frac{1}{4} + \frac{5\pi}{4} \times \frac{5\pi}{4} = \sin^2 \theta$ $\sin^2 \theta = \frac{1}{4} \rightarrow \sin \theta = \pm \frac{1}{2}$ $\sin \theta = \frac{\sqrt{3}}{2}$ $\theta = 60^\circ$

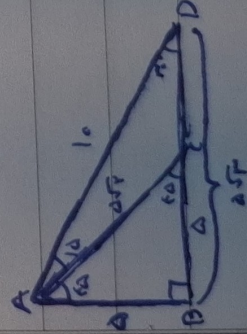
$\tan \theta = 1 = \tan 45^\circ$

$\frac{2 \times \frac{5\pi}{4} \times \frac{1}{4}}{(\frac{1}{4})^2} = \tan \theta$ $\frac{5\pi}{4} = \sqrt{3} = \tan \theta$ $\theta = 60^\circ$ $\frac{5\pi}{4} \times \frac{\pi}{4} = \frac{\pi}{4}$

$\tan \theta = 2$ $\tan \theta = \frac{\sin \theta}{\cos \theta} = 2$ $\sin \theta = 2 \cos \theta$ $\frac{2(\cos \theta) - \cos \theta}{2 \cos \theta - \cos \theta} = 12$

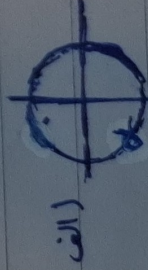


$100 - 36 = 64 \Rightarrow \sqrt{64} = 8$ $10 + 14 + 8 + 2 = 34$

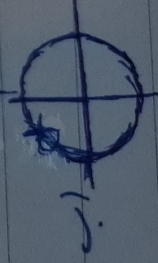


A: $\frac{1}{4} \times 10 = 2.5$ $2.5 + 10 = 12.5$ $12.5 = \sqrt{156.25} = 12.5$

$\Delta 15^\circ - \Delta = \sqrt{3} = CD$



الف) $\cos \theta < 0$ $\sin \theta > 0$



ب) $\cos \theta < 0$ $\sin \theta > 0$

Subject:

Year:

Month:

Day:

$$\tan \alpha = \frac{1}{p}$$

$$\tan^r \alpha = \frac{1}{\cos^r \alpha}$$

$$\frac{1}{q} + 1 = \frac{1}{\frac{q}{10}}$$

$$\cos \alpha = \frac{r}{\sqrt{10}}$$

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

$$\frac{q}{1} + \sin^r \alpha = 1$$

$$\sin \alpha = \frac{1}{\sqrt{10}}$$