

TRIGONOMETRY - FIITJEE Package Solutions .

CPP

1. Prove that $\cos^2 5 + \cos^2 10 + \cos^2 15 + \dots + \cos^2 90 = 8\frac{1}{2}$

Sol. $\cos \theta = \sin(90 - \theta)$
 $\Rightarrow \cos 85 = \sin 5$, $\cos 80 = \sin 10$, and so on.

$$\begin{aligned} \text{So, LHS} &= (\cos^2 5 + \cos^2 85) + (\cos^2 10 + \cos^2 80) + \dots + \cos^2 45 + \cos^2 90 \\ &= (\cos^2 5 + \sin^2 5) + (\cos^2 10 + \sin^2 10) + \dots + (\cos^2 40 + \sin^2 40) + \cos^2 45 + \cos^2 90 \\ &= \underbrace{1 + 1 + \dots + 1}_{8 \text{ times}} + \left(\frac{1}{\sqrt{2}}\right)^2 + 0^2 \\ &= 8\frac{1}{2} = \text{RHS (hence, proved)} \end{aligned}$$

2. If $\sin x + \cos x = a$, then show that $|\sin x - \cos x| = \sqrt{2 - a^2}$

$$\begin{aligned} \text{Sol. } \sin x + \cos x &= a \\ \Rightarrow \sin^2 x + \cos^2 x + 2\sin x \cos x &= a^2 \quad (\text{squaring both sides}) \\ \Rightarrow 1 + 2\sin x \cos x &= a^2 \\ \Rightarrow 2\sin x \cos x &= a^2 - 1 \\ \Rightarrow -2\sin x \cos x &= 1 - a^2 \\ \Rightarrow 1 - 2\sin x \cos x &= 2 - a^2 \quad (\text{Adding 1 on both sides}) \\ \Rightarrow \sin^2 x + \cos^2 x - 2\sin x \cos x &= 2 - a^2 \quad (\sin^2 x + \cos^2 x = 1) \\ \Rightarrow (\sin x - \cos x)^2 &= 2 - a^2 \\ \Rightarrow |\sin x - \cos x| &= \sqrt{2 - a^2} \quad (\text{proved}) \end{aligned}$$

Trigonometry Package

Rachel S Tattersall



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