

$$\begin{aligned}
&= \sqrt{\frac{(1+\cos \theta)^2}{\sin^2 \theta}} + \sqrt{\frac{(1-\cos \theta)^2}{\sin^2 \theta}} \\
&= [(1 + \cos \theta)/\sin \theta] + [(1 - \cos \theta)/\sin \theta] \\
&= [(1/\sin \theta) + (\cos \theta/\sin \theta)] + [(1/\sin \theta) - (\cos \theta/\sin \theta)] \\
&= [\operatorname{cosec} \theta + \cot \theta] + [\operatorname{cosec} \theta - \cot \theta] \\
&= 2 \operatorname{cosec} \theta \\
&= \text{R.H.S.}
\end{aligned}$$

Hence, proved.

Question 22

Solution:

Consider L.H.S. = $\frac{\cos^3 \theta + \sin^3 \theta}{\cos \theta + \sin \theta} + \frac{\cos^3 \theta - \sin^3 \theta}{\cos \theta - \sin \theta}$

Using identities $(a^3 + b^3) = (a + b)(a^2 + b^2 - ab)$ and $(a^3 - b^3) = (a - b)(a^2 + b^2 + ab)$

$$\therefore \text{L.H.S.} = \frac{(\cos \theta + \sin \theta)(\cos^2 \theta + \sin^2 \theta - \cos \theta \sin \theta)}{(\cos \theta + \sin \theta)} +$$

$$\frac{(\cos \theta - \sin \theta)(\cos^2 \theta + \sin^2 \theta + \cos \theta \sin \theta)}{(\cos \theta - \sin \theta)}$$

$$= (\cos^2 \theta + \sin^2 \theta - \cos \theta \sin \theta) + (\cos^2 \theta + \sin^2 \theta + \cos \theta \sin \theta)$$

$$= (1 - \cos \theta \sin \theta) + (1 + \cos \theta \sin \theta)$$

$$= 2$$

$$= \text{R.H.S.}$$

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**Leena Kapoor,Dr Lucy Shaily,R. S.
Dhauni,Nisha Mudgal,Neelima
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