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Interact, engage and perform

Trigonometric Identities to Prove 6

Prove $\frac{\cos\theta}{1-\sin\theta}+\frac{1-\sin\theta}{\cos\theta}\equiv 2\sec\theta$

Proof: $\frac{\cos\theta}{1-\sin\theta}+\frac{1-\sin\theta}{\cos\theta}\equiv\frac{\cos^2\theta+(1-\sin\theta)(1-\sin\theta)}{\cos\theta(1-\sin\theta)}$

$\equiv\frac{\cos^2\theta+1-2\sin\theta+\sin^2\theta}{\cos\theta(1-\sin\theta)}$

$\equiv\frac{2-2\sin\theta}{\cos\theta(1-\sin\theta)}$

$\equiv\frac{2(1-\sin\theta)}{\cos\theta(1-\sin\theta)}$

$\equiv 2\sec\theta$

With the acknowledgement of Exam Solutions.

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