



Air maths tuition

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## Trigonometric Identities to Prove 2

Prove  $\frac{1 - \cos^2 x}{\cos x + 1} \equiv 1 - \cos x$

$$a^2 - b^2 \equiv (a - b)(a + b)$$

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



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