



Air maths tuition


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Proving Trigonometric Identities 2

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

Proof:

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

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


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