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India's Number 1 Education App

MATHS

BOOKS - CENGAGE

TRIGONOMETRY

Worked Examples

1. Prove that $\sin^4\theta - \cos^4\theta = \sin^2\theta - \cos^2\theta$.

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2. Show that $\sqrt{\frac{1-\sin\theta}{1+\sin\theta}} = \sec\theta - \tan\theta$

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3. Prove that $\frac{\cot A + \tan B}{\cot B + \tan A} = \cot A \tan B$

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4. Prove the following:

$$\frac{\tan A + \sec A - 1}{\tan A - \sec A + 1} = \frac{1+\sin A}{\cos A} = \frac{\cos A}{1-\sin A}$$

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