



Air maths tuition

Interact, engage and perform

Prove Trig Equation | Past Paper Question | Pure Maths 1 Specimen Edexcel Q9b

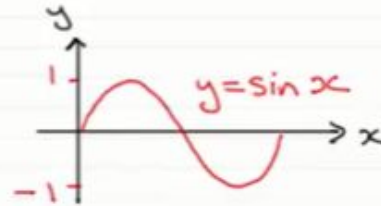
$$\tan \theta + \cot \theta = 1$$

$$\therefore 2 \operatorname{cosec} 2\theta = 1$$

$$\therefore \frac{2}{\sin 2\theta} = 1$$

$$\therefore \sin 2\theta = 2$$

\therefore No real solutions since $-1 \leq \sin 2\theta \leq 1$



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