Air maths tuition

Interact, engage and perform

Trigonometric Identities to Prove 8

Prove $\dfrac{\operatorname{cosec}\theta}{\cot\theta+\tan\theta}\equiv\cos\theta$

Proof: $\dfrac{\operatorname{cosec}\theta}{\cot\theta+\tan\theta} \equiv \dfrac{\frac{1}{\sin\theta}}{\frac{\cos\theta}{\sin\theta}+\frac{\sin\theta}{\cos\theta}}$ $\quad \dfrac{\sin\theta\cos\theta}{\sin\theta\cos\theta}$

$$\equiv \frac{\cos\theta}{\cos^2\theta+\sin^2\theta}$$

$$\equiv \cos\theta$$

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