



Air maths tuition

Interact, engage and perform

Trigonometry | Solving Equations using identities (Example 1)

Solve $\sin \theta - \cos \theta = 0$ for $0^\circ \leq \theta \leq 360^\circ$

$\therefore \sin \theta = \cos \theta$

$\therefore \frac{\sin \theta}{\cos \theta} = \frac{\cos \theta}{\cos \theta}$

$\therefore \tan \theta = 1$

$\therefore \theta = \tan^{-1} 1$

$\therefore \theta = 45^\circ, 225^\circ$

$\frac{\sin \theta}{\cos \theta} = \tan \theta$

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