



Air maths tuition

Interact, engage and perform

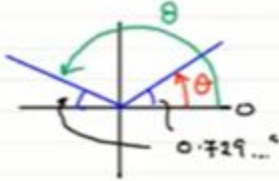
Trig Equations - Using Pythagorean Identities 2

$\therefore \frac{1}{\sin \theta} = \frac{3}{2}$

$\therefore \sin \theta = \frac{2}{3}$

$\therefore \theta = \sin^{-1} \frac{2}{3}$

$\therefore \theta = 0.729\dots^\circ, 2.411\dots^\circ$



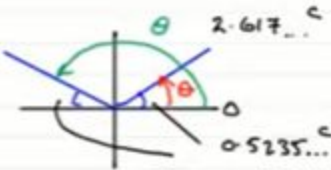
when $\operatorname{cosec} \theta = 2$

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

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

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

$\therefore \theta = \frac{\pi}{6}, \frac{5\pi}{6}$



$\therefore \theta = \frac{\pi}{6}^\circ, 0.7^\circ (1dp), 2.4^\circ (1dp), \frac{5\pi}{6}^\circ$

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