



Air maths tuition

Interact, engage and perform

Trig. Equation | Past Paper Question | OCR C2 June 2013 Q2(ii)

Solve

$$\sin x = 3 \cos x \quad \text{for} \quad 0^\circ \leq x \leq 360^\circ$$

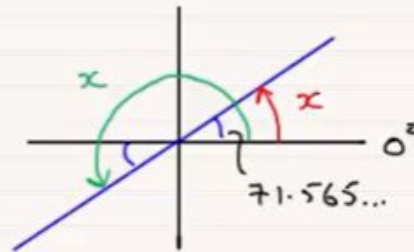
$$\therefore \frac{\sin x}{\cos x} = 3$$

$$\therefore \tan x = 3$$

$$\therefore x = \tan^{-1} 3$$

$$\therefore x = \underline{71.565^\circ}, \underline{251.565^\circ}$$

$$\therefore x = 71.6^\circ, 252^\circ \quad (\text{both to 3sf})$$



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