



Air maths tuition

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Trig. Equation | Past Paper Question | C2 Edexcel June 2012 Q6(a)

(a) Show that the equation

$$\tan 2x = 5 \sin 2x$$

can be written in the form $(1 - 5 \cos 2x) \sin 2x = 0$ (2)

$$\tan 2x = 5 \sin 2x$$

$$\therefore \frac{\sin 2x}{\cos 2x} = 5 \sin 2x$$

$$\therefore \sin 2x = 5 \sin 2x \cos 2x$$

$$\therefore \sin 2x - 5 \sin 2x \cos 2x = 0$$

$$\therefore (\sin 2x)(1 - 5 \cos 2x) = 0$$

$$\therefore (1 - 5 \cos 2x) \sin 2x = 0$$

$$\left| \begin{array}{l} \tan \theta \equiv \frac{\sin \theta}{\cos \theta} \end{array} \right.$$

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