

HL Paper 1

Find the values of x for which the vectors $\begin{pmatrix} 1 \\ 2 \cos x \\ 0 \end{pmatrix}$ and $\begin{pmatrix} -1 \\ 2 \sin x \\ 1 \end{pmatrix}$ are perpendicular, $0 \leq x \leq \frac{\pi}{2}$.

Markscheme

perpendicular when $\begin{pmatrix} 1 \\ 2 \cos x \\ 0 \end{pmatrix} \cdot \begin{pmatrix} -1 \\ 2 \sin x \\ 1 \end{pmatrix} = 0$ *(M1)*

$$\Rightarrow -1 + 4 \sin x \cos x = 0 \quad \text{A1}$$

$$\Rightarrow \sin 2x = \frac{1}{4} \quad \text{M1}$$

$$\Rightarrow 2x = \frac{\pi}{6}, \frac{5\pi}{6}$$

$$\Rightarrow x = \frac{\pi}{12}, \frac{5\pi}{12} \quad \text{A1A1}$$

Note: Accept answers in degrees.

[5 marks]

Examiners report

Most candidates realised that the scalar product should be used to solve this problem and many obtained the equation $4 \sin x \cos x = 1$.

Candidates who failed to see that this could be written as $\sin 2x = 0.5$ usually made no further progress. The majority of those candidates who used this double angle formula carried on to obtain the solution $\frac{\pi}{12}$ but few candidates realised that $\frac{5\pi}{12}$ was also a solution.

a. Given that $\arctan\left(\frac{1}{p}\right) + \arctan\left(\frac{1}{p}\right) = \arctan\left(\frac{1}{p}\right)$, where $p \in \mathbb{Z}^+$, find p .

[3]

b. Hence find the value of $\arctan\left(\frac{1}{p}\right) + \arctan\left(\frac{1}{p}\right) + \arctan\left(\frac{1}{p}\right)$.

[3]

Markscheme

a. attempt at use of $\tan(A + B) = \frac{\tan(A) + \tan(B)}{1 - \tan(A)\tan(B)}$ *M1*

$$\frac{1}{p} = \frac{\frac{1}{p} + \frac{1}{p}}{1 - \frac{1}{p} \times \frac{1}{p}} \quad \left(= \frac{1}{p}\right) \quad \text{A1}$$

$$p = 3 \quad \text{A1}$$

Note: the value of p needs to be stated for the final mark.

[2 marks]

b. $\tan\left(\arctan\left(\frac{1}{p}\right) + \arctan\left(\frac{1}{p}\right) + \arctan\left(\frac{1}{p}\right)\right) = \frac{\frac{1}{p} + \frac{1}{p}}{1 - \frac{1}{p} \times \frac{1}{p}} = 1$ *MLA1*

$$\arctan\left(\frac{1}{p}\right) + \arctan\left(\frac{1}{p}\right) + \arctan\left(\frac{1}{p}\right) = \frac{\pi}{4} \quad \text{A1}$$

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Ian Pickup



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