# A Level Maths - Predicted Paper 2B - 2023

Part.	Working or answer an examiner might expect to see	Mack	Notes
1)	For example, for $x = 9.4$  3x - 28  = 0.2 and $(x - 9) = 0.4$	MI	This mark is given for showing that the statement is not true for $9.25 \le x \le 9.5$
	The statement is sometimes true: For example, for $x = 12$  3x - 28  = 8 and $(x - 9) = 3$	Al	This mark is given for a correct statement and an example where the statement is true

Scheme	Marks	AON
$\frac{\sin 2\theta + \sin \theta}{\cos 2\theta + \cos \theta + 1} = \frac{2\sin \theta \cos \theta + \sin \theta}{\sin \theta} \text{ or } \frac{1}{2\cos^2 \theta - 1 + \cos \theta + 1}$	541	1.16
$\sin 2\theta + \sin \theta = \frac{2 \sin \theta \cos \theta + \sin \theta}{2 \cos^2 \theta - 1 + \cos \theta + 1}$		2.1
$= \frac{\sin\theta(2\cos\theta+1)}{\cos\theta(2\cos\theta+1)} = \tan\theta^*$		2.25
	(3)	
$\frac{\sin 2x + \sin x}{\cos 2x + \cos x + 1} = 2\cos x \Rightarrow \tan x = 2\cos x$ $\Rightarrow \sin x = 2\cos^2 x = 2(1 - \sin^2 x)$	MI	3.14
$\Rightarrow 2\sin^2 x + \sin x - 2 \Rightarrow 0$	AI	30.00
$\sin x = \frac{-1 \pm \sqrt{17}}{4} (0.780 1.280) \rightarrow x =$		1.18
x =0.896, 2.246	A1 A1	1.18
	(5)	
	$\frac{\sin 2\theta + \sin \theta}{\cos 2\theta + \cos \theta + 1} = \frac{2\sin \theta \cos \theta + \sin \theta}{\sin 2\theta + \sin \theta} = \frac{-}{2\cos^2 \theta + 1 + \cos \theta + 1}$ $\frac{\sin 2\theta + \sin \theta}{\cos 2\theta + \cos \theta + 1} = \frac{2\sin \theta \cos \theta + \sin \theta}{\cos \theta (2\cos \theta + 1)}$ $= \frac{\sin \theta (2\cos \theta + 1)}{\cos \theta (2\cos \theta + 1)} = \tan \theta + \frac{\sin 2x + \sin x}{\cos 2x + \cos x + 1}$ $\Rightarrow \sin x = 2\cos x \Rightarrow \tan x = 2\cos x$ $\Rightarrow \sin x = 2\cos^2 x = 2(1 - \sin^2 x)$ $\Rightarrow 2\sin^2 x + \sin x - 2 = 0$ $\sin x = \frac{-1 \pm \sqrt{17}}{4} (0.780 - 1.280 - 1) \Rightarrow x =$	$\frac{\sin 2\theta + \sin \theta}{\cos 2\theta + \cos \theta + 1} = \frac{2\sin \theta \cos \theta + \sin \theta}{1}  \text{or}  \frac{-}{2\cos^2 \theta - 1 + \cos \theta + 1} \qquad M1$ $\frac{\sin 2\theta + \sin \theta}{\cos 2\theta + \cos \theta + 1} = \frac{2\sin \theta \cos \theta + \sin \theta}{\cos \theta + 1} \qquad M1$ $\frac{\sin 2\theta + \sin \theta}{\cos \theta (2\cos \theta + 1)} = \tan \theta^* \qquad A1^*$ $\frac{\sin 2x + \sin x}{\cos 2x + \cos x + 1} = 2\cos x \Rightarrow \tan x = 2\cos x$ $\cos 2x + \cos x + 1$ $\Rightarrow \sin x = 2\cos^2 x = 2(1 - \sin^2 x)$ $\Rightarrow 2\sin^2 x + \sin x - 2 \Rightarrow 0 \qquad A1$ $\sin x = \frac{-1 \pm \sqrt{17}}{4} (0.780 + 1.280) \Rightarrow x = \qquad dM1$ $x = 0.896, 2.246 \qquad A1$

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Michal Rosen-Zvi

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#### Table of Contents Pixl Maths Predicted Paper 2b Nov 2

- 1. Understanding the eBook Pixl Maths Predicted Paper 2b Nov 2
  - The Rise of Digital Reading Pixl Maths Predicted Paper 2b Nov 2
  - o Advantages of eBooks Over Traditional Books
- 2. Identifying Pixl Maths Predicted Paper 2b Nov 2
  - Exploring Different Genres
  - $\circ\,$  Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Pixl Maths Predicted Paper 2b Nov 2
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Pixl Maths Predicted Paper 2b Nov 2

- Personalized Recommendations
- Pixl Maths Predicted Paper 2b Nov 2 User Reviews and Ratings
- Pixl Maths Predicted Paper 2b Nov 2 and Bestseller Lists
- 5. Accessing Pixl Maths Predicted Paper 2b Nov 2 Free and Paid eBooks
  - Pixl Maths Predicted Paper 2b Nov 2 Public Domain eBooks
  - Pixl Maths Predicted Paper 2b Nov 2 eBook Subscription Services
  - Pixl Maths Predicted Paper 2b Nov 2 Budget-Friendly Options
- 6. Navigating Pixl Maths Predicted Paper 2b Nov 2 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Pixl Maths Predicted Paper 2b Nov 2 Compatibility with Devices
  - Pixl Maths Predicted Paper 2b Nov 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pixl Maths Predicted Paper 2b Nov 2
  - Highlighting and Note-Taking Pixl Maths Predicted Paper 2b Nov 2
  - Interactive Elements Pixl Maths Predicted Paper 2b Nov 2
- 8. Staying Engaged with Pixl Maths Predicted Paper 2b Nov 2
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pixl Maths Predicted Paper 2b Nov 2
- 9. Balancing eBooks and Physical Books Pixl Maths Predicted Paper 2b Nov 2
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Pixl Maths Predicted Paper 2b Nov 2
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Pixl Maths Predicted Paper 2b Nov 2
  - Setting Reading Goals Pixl Maths Predicted Paper 2b Nov 2
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pixl Maths Predicted Paper 2b Nov 2

- Fact-Checking eBook Content of Pixl Maths Predicted Paper 2b Nov 2
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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