# 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 < x < 9.5	
	The statement is sometimes true: For example, for $x = 12$  3x - 28  = 8 and $(x - 9) = 3$		This mark is given for a correct statement and an example where the statement is true	

Question	Scheme		AOs
2(a)	$\frac{\sin 2\theta + \sin \theta}{\cos 2\theta + \cos \theta + 1} = \frac{2\sin \theta \cos \theta + \sin \theta}{\sin \theta}  \text{or}  \frac{1}{2\cos^2 \theta + 1 + \cos \theta + 1}$	MI	1.15
	$\sin 2\theta + \sin \theta = \frac{2 \sin \theta \cos \theta + \sin \theta}{2 \cos^2 \theta - 1 + \cos \theta + 1}$	NO.	2.10
	$= \frac{\sin \theta (2\cos \theta + 1)}{\cos \theta (2\cos \theta + 1)} = \tan \theta^*$		2.25
		(3)	
(b)	$\frac{\sin 2x + \sin x}{\cos 2x + \cos x + 1} = 2\cos x \Rightarrow \tan x = 2\cos x$ $\Rightarrow \sin x = 2\cos^2 x = 2(1 - \sin^2 x)$	М1	3.1a
	$\Rightarrow 2\sin^2 x + \sin x - 2 \Rightarrow 0$	AI	31.336
	$\sin x = \frac{-1 \pm \sqrt{17}}{4} (0.780 1.280) \rightarrow x =$		1.16
	x =0.896, 2.246	A1 A1	1.15
		(5)	

# Pixl Maths Predicted Paper 2b Nov 201

**ML Morrison** 

Pixl Maths Predicted Paper 2b Nov 201:

## Decoding **Pixl Maths Predicted Paper 2b Nov 201**: Revealing the Captivating Potential of Verbal Expression

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