

A Level Maths - Edexcel – Predicted Paper 2 – 2023

Question	Scheme	Marks	AOs
1(a)	$m = \frac{5 - (-2)}{7 - (-3)} \quad \text{or} \quad m = \frac{-2 - 5}{-3 - 7}$	M1	1.1b
	$m = \frac{7}{10}$	A1	1.1b
		(2)	
(b)	$y - 5 = \frac{7}{10}(x - 7)$	M1	1.1b
	$7x - 10y + 1 = 0$	A1	1.1b
		(2)	
(c)	$m_N = -\frac{10}{7}$	B1ft	1.1b
		(1)	
(5 marks)			

Question	Scheme	Marks	AOs
2(a)(i)	$\frac{dy}{dx} = 3ax^2 + 2bx + 12$	M1	1.1b
		A1	1.1b
		(3)	
(ii)	$\frac{d^2y}{dx^2} = 6ax + 2b$	A1ft	1.1b
		(3)	
(b)	$\frac{13}{2} = a\left(\frac{3}{2}\right)^2 + b\left(\frac{3}{2}\right) + 12\left(\frac{3}{2}\right) + 2, \quad 6a\left(\frac{3}{2}\right) + 2b = 0$	M1	3.1a
	$\Rightarrow a = \dots, b = \dots$		
	$a = 2, b = -9$	A1	1.1b
(c)		(2)	
	$\left(\frac{d^2y}{dx^2}\right)_{x=1} = 12(1) - 18, \quad \left(\frac{d^2y}{dx^2}\right)_{x=2} = 12(2) - 18$		
	or $\left(\frac{d^2y}{dx^2}\right)_{\left(x=\frac{3}{2}\right)} = 12$	M1	2.1
	$\left(\frac{d^2y}{dx^2}\right)_{x=1} < 0, \quad \left(\frac{d^2y}{dx^2}\right)_{x=2} > 0$		
	or $\left(\frac{d^3y}{dx^3}\right)_{\left(x=\frac{3}{2}\right)} \neq 0$	A1	2.2a
	Hence point of inflection		
		(2)	
(7 marks)			

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Table of Contents Pixl Predicted Paper June 2014 Mark S

1. Understanding the eBook Pixl Predicted Paper June 2014 Mark S
 - The Rise of Digital Reading Pixl Predicted Paper June 2014 Mark S
 - Advantages of eBooks Over Traditional Books
2. Identifying Pixl Predicted Paper June 2014 Mark S
 - Exploring Different Genres
 - 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 Predicted Paper June 2014 Mark S
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pixl Predicted Paper June 2014 Mark S
 - Personalized Recommendations
 - Pixl Predicted Paper June 2014 Mark S User Reviews and Ratings
 - Pixl Predicted Paper June 2014 Mark S and Bestseller Lists
5. Accessing Pixl Predicted Paper June 2014 Mark S Free and Paid eBooks
 - Pixl Predicted Paper June 2014 Mark S Public Domain eBooks
 - Pixl Predicted Paper June 2014 Mark S eBook Subscription Services
 - Pixl Predicted Paper June 2014 Mark S Budget-Friendly Options

6. Navigating Pixl Predicted Paper June 2014 Mark S eBook Formats
 - ePub, PDF, MOBI, and More
 - Pixl Predicted Paper June 2014 Mark S Compatibility with Devices
 - Pixl Predicted Paper June 2014 Mark S Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pixl Predicted Paper June 2014 Mark S
 - Highlighting and Note-Taking Pixl Predicted Paper June 2014 Mark S
 - Interactive Elements Pixl Predicted Paper June 2014 Mark S
8. Staying Engaged with Pixl Predicted Paper June 2014 Mark S
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pixl Predicted Paper June 2014 Mark S
9. Balancing eBooks and Physical Books Pixl Predicted Paper June 2014 Mark S
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pixl Predicted Paper June 2014 Mark S
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pixl Predicted Paper June 2014 Mark S
 - Setting Reading Goals Pixl Predicted Paper June 2014 Mark S
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pixl Predicted Paper June 2014 Mark S
 - Fact-Checking eBook Content of Pixl Predicted Paper June 2014 Mark S
 - 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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