ANSWER ALL THE QUESTIONS

(100 MARKS)

QUESTION 1

Choose the correct answer from the four possible answers supplied. Write down only the letter that denotes the correct answer.

1.1 The factorisation of $x^2 + x - 6$ is:

(a)	(x -	2)(x	+	3)
(b)	(x -	2)(x	-	3)
(c)	(x -	1)(x	+	6)
((d))	(x: +	1)(x	-	6)

(2)

1.2 The derivative of $f(x) = 2e^{2x}$ is:

(a) $f''(x) = 2e^{2x}$ (b) $f''(x) = 4e^{2x}$ (c) $f''(x) = 2e^{2x+1}$

1.3 If $y = \cos 5x$, then $\frac{dy}{dx} =$

(2)

(d) $f'(x) = 4e^{2x+1}$

(a) -5sinx (b) -5sin4x (c) -5sin5x (d) -5sin6x

(2)

1.4 The horizontal tangent that can be drawn to the graph of f(x) = 2x² + 2 passes through the point?

(a) (0:2) (b) (2:0) (c) (2:2) (d) (0:0)

(2)

1.5 $\frac{\log_2 32 + \log_2 2}{\log_2 16 - \log_2 2} =$

(a) 1 (b) 2 (c) 3 (d) 4

(2) [10]

QUESTION 2

2.1 Solve for at

2.1.1 $3(x^2-4)=0$

(2)

REPORT

PAGE 4 OF B

MATHEMATICS N4

 $2.1.2 \quad 3(2^{x+1}) = 24$

(-4)

2.2 Solve for x if $2log_{12}(2x + 1) = 24$

(4) [10]

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Gloria Harris, Garda Turner

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Table of Contents Answers For N4 Mathematics Papers

- 1. Understanding the eBook Answers For N4 Mathematics Papers
 - The Rise of Digital Reading Answers For N4 Mathematics Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Answers For N4 Mathematics Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - $\circ\,$ Features to Look for in an Answers For N4 Mathematics Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answers For N4 Mathematics Papers
 - Personalized Recommendations
 - Answers For N4 Mathematics Papers User Reviews and Ratings
 - Answers For N4 Mathematics Papers and Bestseller Lists
- 5. Accessing Answers For N4 Mathematics Papers Free and Paid eBooks

- Answers For N4 Mathematics Papers Public Domain eBooks
- Answers For N4 Mathematics Papers eBook Subscription Services
- Answers For N4 Mathematics Papers Budget-Friendly Options
- 6. Navigating Answers For N4 Mathematics Papers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Answers For N4 Mathematics Papers Compatibility with Devices
 - Answers For N4 Mathematics Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For N4 Mathematics Papers
 - Highlighting and Note-Taking Answers For N4 Mathematics Papers
 - Interactive Elements Answers For N4 Mathematics Papers
- 8. Staying Engaged with Answers For N4 Mathematics Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For N4 Mathematics Papers
- 9. Balancing eBooks and Physical Books Answers For N4 Mathematics Papers
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection Answers For N4 Mathematics Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For N4 Mathematics Papers
 - Setting Reading Goals Answers For N4 Mathematics Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For N4 Mathematics Papers
 - Fact-Checking eBook Content of Answers For N4 Mathematics Papers
 - 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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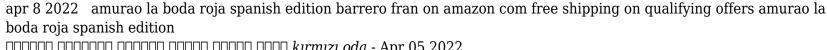
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