

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

(2)

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

- (a) $-5\sin x$
- (b) $-5\sin 4x$
- (c) $-5\sin 5x$
- (d) $-5\sin 6x$

(2)

1.4 The horizontal tangent that can be drawn to the graph of $f(x) = 2x^2 + 2$ 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 x :

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

(2)

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

(4)

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

(4)

[10]

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Léo Pomar



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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
 - 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
 - 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
 - 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
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