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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JS Bruner

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Table of Contents N4 Mathematics Questions And Answers

1. Understanding the eBook N4 Mathematics Questions And Answers
    - The Rise of Digital Reading N4 Mathematics Questions And Answers
    - Advantages of eBooks Over Traditional Books
2. Identifying N4 Mathematics Questions And Answers
    - 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 N4 Mathematics Questions And Answers
    - User-Friendly Interface
4. Exploring eBook Recommendations from N4 Mathematics Questions And Answers
    - Personalized Recommendations
    - N4 Mathematics Questions And Answers User Reviews and Ratings
    - N4 Mathematics Questions And Answers and Bestseller Lists
5. Accessing N4 Mathematics Questions And Answers Free and Paid eBooks
    - N4 Mathematics Questions And Answers Public Domain eBooks
    - N4 Mathematics Questions And Answers eBook Subscription Services
    - N4 Mathematics Questions And Answers Budget-Friendly Options
6. Navigating N4 Mathematics Questions And Answers eBook Formats

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