

QUESTION 1: FACTORISE

1.1 Factorise the following expression completely:

$$x\left(\frac{2x^2}{x} - \frac{3xy}{x}\right) + y\left(\frac{2xy}{y} - \frac{3y^2}{y}\right) \quad (3)$$

1.2 When $f(x) = 3ax^3 + 2x^2 - 7x + 3$ is divided by $2x + 1$ the remainder is $-\frac{a}{2}$.

Determine the value or values of a . (5)

1.3 Simplify the following expression:

$$\frac{b}{a+b} + \frac{a}{a-b} + \frac{2ab}{b^2 - a^2} \quad (6)$$

[14]

QUESTION 2: FACTORISE – AUG 18

2.1 Simplify the following algebraic fraction:

$$\frac{x^2 - 4}{3x^2 + 4x - 4} \div \frac{x^2 - 4x + 4}{2x^2 - 11x + 14} \times \frac{3x - 2}{6x - 21} \quad (5)$$

2.2 When $f(x)$ is divided by $2x - 3$ the remainder is 4.

Determine the value of p if $f(x) = 2x^3 - px^2 + 6x - 5$. (4)

2.3 Factorise the following expression completely:

$$ax + 9by - 3ay - 3bx \quad (3)$$

2.4 Simplify the following expression:

$$\frac{x + 9x^{\frac{1}{2}}}{x + 7x^{\frac{1}{2}} - 18} \div \left(1 - \frac{2}{x^{\frac{1}{2}}}\right)^{-1} \quad (5)$$

[17]

QUESTION 3: FACTORISE

3.1 Factorise the following as far as possible in prime factors:

3.1.1 $5x^4 - 5y^8$

3.1.2 $15x^2y^2 - 25xy^3 - 10y^4$

(2 × 3) (6)

Mathematics N3 Question Papers

Albert A Gayle



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Table of Contents Mathematics N3 Question Papers

1. Understanding the eBook Mathematics N3 Question Papers
 - The Rise of Digital Reading Mathematics N3 Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics N3 Question 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 Mathematics N3 Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics N3 Question Papers
 - Personalized Recommendations
 - Mathematics N3 Question Papers User Reviews and Ratings
 - Mathematics N3 Question Papers and Bestseller Lists
5. Accessing Mathematics N3 Question Papers Free and Paid eBooks
 - Mathematics N3 Question Papers Public Domain eBooks
 - Mathematics N3 Question Papers eBook Subscription Services
 - Mathematics N3 Question Papers Budget-Friendly Options
6. Navigating Mathematics N3 Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics N3 Question Papers Compatibility with Devices
 - Mathematics N3 Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics N3 Question Papers
 - Highlighting and Note-Taking Mathematics N3 Question Papers
 - Interactive Elements Mathematics N3 Question Papers

8. Staying Engaged with Mathematics N3 Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics N3 Question Papers
9. Balancing eBooks and Physical Books Mathematics N3 Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics N3 Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics N3 Question Papers
 - Setting Reading Goals Mathematics N3 Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics N3 Question Papers
 - Fact-Checking eBook Content of Mathematics N3 Question 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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