

## QUESTION 1: FACTORISE

1.1 Factorise the following expression completely:

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

(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:

$$\frac{b}{a+b} + \frac{a}{a-b} + \frac{2ab}{b^2 - a^2}$$

(6)

[14]

## QUESTION 2: FACTORISE – AUG 18

2.1 Simplify the following algebraic fraction:

$$\frac{x^2 - 4}{3x^2 + 4x - 4} + \frac{x^2 - 4x + 4}{2x^2 - 11x + 14} \times \frac{3x - 2}{6x - 21}$$

(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:  
 $ax + 9by - 3ay - 3bx$

(3)

2.4 Simplify the following expression:

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

(5)

[17]

## QUESTION 3: FACTORISE

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

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

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

(2  $\times$  3) (6)

10.05.2020	Mathematics IAS FACTORISE				Page 2 of 10
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## **Table of Contents 2013 Mathematics Nov N3 Question Paper**

1. Understanding the eBook 2013 Mathematics Nov N3 Question Paper
  - The Rise of Digital Reading 2013 Mathematics Nov N3 Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Mathematics Nov N3 Question Paper
  - 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 2013 Mathematics Nov N3 Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Mathematics Nov N3 Question Paper
  - Personalized Recommendations
  - 2013 Mathematics Nov N3 Question Paper User Reviews and Ratings

- 2013 Mathematics Nov N3 Question Paper and Bestseller Lists
- 5. Accessing 2013 Mathematics Nov N3 Question Paper Free and Paid eBooks
  - 2013 Mathematics Nov N3 Question Paper Public Domain eBooks
  - 2013 Mathematics Nov N3 Question Paper eBook Subscription Services
  - 2013 Mathematics Nov N3 Question Paper Budget-Friendly Options
- 6. Navigating 2013 Mathematics Nov N3 Question Paper eBook Formats
  - ePUB, PDF, MOBI, and More
  - 2013 Mathematics Nov N3 Question Paper Compatibility with Devices
  - 2013 Mathematics Nov N3 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2013 Mathematics Nov N3 Question Paper
  - Highlighting and Note-Taking 2013 Mathematics Nov N3 Question Paper
  - Interactive Elements 2013 Mathematics Nov N3 Question Paper
- 8. Staying Engaged with 2013 Mathematics Nov N3 Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2013 Mathematics Nov N3 Question Paper
- 9. Balancing eBooks and Physical Books 2013 Mathematics Nov N3 Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2013 Mathematics Nov N3 Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2013 Mathematics Nov N3 Question Paper
  - Setting Reading Goals 2013 Mathematics Nov N3 Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2013 Mathematics Nov N3 Question Paper
  - Fact-Checking eBook Content of 2013 Mathematics Nov N3 Question Paper
  - 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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