

6 It is given that $\int_1^a \ln(2x) \, dx = 1$, where $a > 1$.

(i) Show that $a = \frac{1}{2} \exp\left(1 + \frac{\ln 2}{a}\right)$, where $\exp(x)$ denotes e^x . [6]

(ii) Use the iterative formula

$$a_{n+1} = \frac{1}{2} \exp\left(1 + \frac{\ln 2}{a_n}\right)$$

to determine the value of a correct to 2 decimal places. Give the result of each iteration to 4 decimal places. [3]

7 In a certain country the government charges tax on each litre of petrol sold to motorists. The revenue per year is R million dollars when the rate of tax is x dollars per litre. The variation of R with x is modelled by the differential equation

$$\frac{dR}{dx} = R\left(\frac{1}{x} - 0.57\right),$$

where R and x are taken to be continuous variables. When $x = 0.5$, $R = 16.8$.

(i) Solve the differential equation and obtain an expression for R in terms of x . [6]

(ii) This model predicts that R cannot exceed a certain amount. Find this maximum value of R . [3]

8 (i) By first expanding $\sin(2\theta + \theta)$, show that

$$\sin 3\theta = 3 \sin \theta - 4 \sin^3 \theta. \quad [4]$$

(ii) Show that, after making the substitution $x = \frac{2 \sin \theta}{\sqrt{3}}$, the equation $x^3 - x + \frac{1}{6}\sqrt{3} = 0$ can be written in the form $\sin 3\theta = \frac{3}{4}$. [1]

(iii) Hence solve the equation

$$x^3 - x + \frac{1}{6}\sqrt{3} = 0,$$

giving your answers correct to 3 significant figures. [4]

9 Let $f(x) = \frac{x^2 - 8x + 9}{(1-x)(2-x)^2}$.

(i) Express $f(x)$ in partial fractions. [5]

(ii) Hence obtain the expansion of $f(x)$ in ascending powers of x , up to and including the term in x^2 . [5]

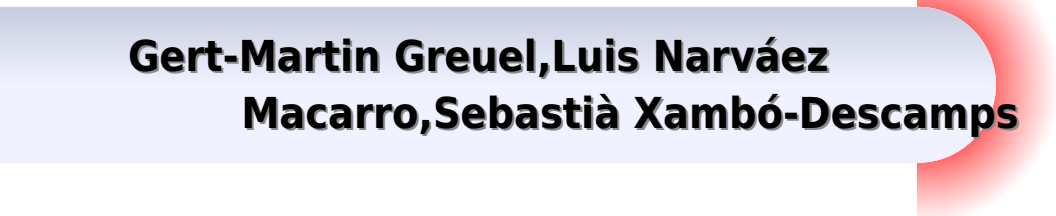
10 The line l has equation $\mathbf{r} = 4\mathbf{i} - 9\mathbf{j} + 9\mathbf{k} + \lambda(-2\mathbf{i} + \mathbf{j} - 2\mathbf{k})$. The point A has position vector $3\mathbf{i} + 8\mathbf{j} + 5\mathbf{k}$.

(i) Show that the length of the perpendicular from A to l is 15. [5]

(ii) The line l lies in the plane with equation $ax + by - 3z + 1 = 0$, where a and b are constants. Find the values of a and b . [5]

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Table of Contents Mathematics 2014 October November Paper 4

1. Understanding the eBook Mathematics 2014 October November Paper 4
 - The Rise of Digital Reading Mathematics 2014 October November Paper 4
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics 2014 October November Paper 4
 - 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 2014 October November Paper 4
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics 2014 October November Paper 4
 - Personalized Recommendations
 - Mathematics 2014 October November Paper 4 User Reviews and Ratings
 - Mathematics 2014 October November Paper 4 and Bestseller Lists
5. Accessing Mathematics 2014 October November Paper 4 Free and Paid eBooks

- Mathematics 2014 October November Paper 4 Public Domain eBooks
 - Mathematics 2014 October November Paper 4 eBook Subscription Services
 - Mathematics 2014 October November Paper 4 Budget-Friendly Options
6. Navigating Mathematics 2014 October November Paper 4 eBook Formats
- ePub, PDF, MOBI, and More
 - Mathematics 2014 October November Paper 4 Compatibility with Devices
 - Mathematics 2014 October November Paper 4 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mathematics 2014 October November Paper 4
 - Highlighting and Note-Taking Mathematics 2014 October November Paper 4
 - Interactive Elements Mathematics 2014 October November Paper 4
8. Staying Engaged with Mathematics 2014 October November Paper 4
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics 2014 October November Paper 4
9. Balancing eBooks and Physical Books Mathematics 2014 October November Paper 4
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics 2014 October November Paper 4
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics 2014 October November Paper 4
- Setting Reading Goals Mathematics 2014 October November Paper 4
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics 2014 October November Paper 4
- Fact-Checking eBook Content of Mathematics 2014 October November Paper 4
 - 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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