

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

Maths Paper 2013 Preliminary Exam

Rachel Sandford



Maths Paper 2013 Preliminary Exam:

This book delves into Maths Paper 2013 Preliminary Exam. Maths Paper 2013 Preliminary Exam is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Maths Paper 2013 Preliminary Exam, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Maths Paper 2013 Preliminary Exam
 - Chapter 2: Essential Elements of Maths Paper 2013 Preliminary Exam
 - Chapter 3: Maths Paper 2013 Preliminary Exam in Everyday Life
 - Chapter 4: Maths Paper 2013 Preliminary Exam in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Maths Paper 2013 Preliminary Exam. The first chapter will explore what Maths Paper 2013 Preliminary Exam is, why Maths Paper 2013 Preliminary Exam is vital, and how to effectively learn about Maths Paper 2013 Preliminary Exam.
3. In chapter 2, the author will delve into the foundational concepts of Maths Paper 2013 Preliminary Exam. This chapter will elucidate the essential principles that need to be understood to grasp Maths Paper 2013 Preliminary Exam in its entirety.
4. In chapter 3, the author will examine the practical applications of Maths Paper 2013 Preliminary Exam in daily life. The third chapter will showcase real-world examples of how Maths Paper 2013 Preliminary Exam can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Maths Paper 2013 Preliminary Exam in specific contexts. This chapter will explore how Maths Paper 2013 Preliminary Exam is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Maths Paper 2013 Preliminary Exam. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Maths Paper 2013 Preliminary Exam.

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