

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...

Mathematics Grade 11 Exam Papers 20114

David Kirk



Mathematics Grade 11 Exam Papers 20114:

The book delves into Mathematics Grade 11 Exam Papers 20114. Mathematics Grade 11 Exam Papers 20114 is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mathematics Grade 11 Exam Papers 20114, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Mathematics Grade 11 Exam Papers 20114
- Chapter 2: Essential Elements of Mathematics Grade 11 Exam Papers 20114
- Chapter 3: Mathematics Grade 11 Exam Papers 20114 in Everyday Life
- Chapter 4: Mathematics Grade 11 Exam Papers 20114 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mathematics Grade 11 Exam Papers 20114. The first chapter will explore what Mathematics Grade 11 Exam Papers 20114 is, why Mathematics Grade 11 Exam Papers 20114 is vital, and how to effectively learn about Mathematics Grade 11 Exam Papers 20114.
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5. In chapter 4, this book will scrutinize the relevance of Mathematics Grade 11 Exam Papers 20114 in specific contexts. This chapter will explore how Mathematics Grade 11 Exam Papers 20114 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Mathematics Grade 11 Exam Papers 20114. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mathematics Grade 11 Exam Papers 20114.

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