

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...

Grade 11 Mathematic Question Paper 2012

J Rink



Grade 11 Mathematic Question Paper 2012:

This book delves into Grade 11 Mathematic Question Paper 2012. Grade 11 Mathematic Question Paper 2012 is an essential 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 Grade 11 Mathematic Question Paper 2012, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Grade 11 Mathematic Question Paper 2012
 - Chapter 2: Essential Elements of Grade 11 Mathematic Question Paper 2012
 - Chapter 3: Grade 11 Mathematic Question Paper 2012 in Everyday Life
 - Chapter 4: Grade 11 Mathematic Question Paper 2012 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Grade 11 Mathematic Question Paper 2012. This chapter will explore what Grade 11 Mathematic Question Paper 2012 is, why Grade 11 Mathematic Question Paper 2012 is vital, and how to effectively learn about Grade 11 Mathematic Question Paper 2012.
3. In chapter 2, the author will delve into the foundational concepts of Grade 11 Mathematic Question Paper 2012. This chapter will elucidate the essential principles that must be understood to grasp Grade 11 Mathematic Question Paper 2012 in its entirety.
4. In chapter 3, the author will examine the practical applications of Grade 11 Mathematic Question Paper 2012 in daily life. The third chapter will showcase real-world examples of how Grade 11 Mathematic Question Paper 2012 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Grade 11 Mathematic Question Paper 2012 in specific contexts. This chapter will explore how Grade 11 Mathematic Question Paper 2012 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Grade 11 Mathematic Question Paper 2012. This 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 Grade 11 Mathematic Question Paper 2012.

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