

CONTENTS:

1. Equations

- 1.1 Simple equations
- 1.2 Algebraic manipulation
- 1.3 The nature of equations
- Summary

2. Algebraic Methods

- 2.1 Simultaneous equations
- 2.2 Partial fractions
- 2.3 Inequalities
- Summary

3. Indices and Logarithms

- 3.1 Indices
- 3.2 Surd Form
- 3.3 Logarithms
- Summary

4. Trigonometry

- 4.1 The Angles in a Triangle
- 4.2 Trigonometric Equations
- 4.3 Radian Measure
- 4.4 Change of Scale
- 4.5 More Trigonometric Identities
- 4.6 Solution of Triangles
- Summary

Contents:

5. Matrices and Determinants

5.1 Algebra of Matrices

5.2 Matrix Operations

5.3 Use of Matrices

Summary

Activities

6. Complex Numbers

6.1 Introduction to Complex Numbers

6.2 Operations with Complex Numbers

6.3 Modulus and Argument

6.4 Loci in the Complex Plane

6.5 De Moivre's Theorem and Applications

Summary

Activities

7. Differentiation

7.1 Gradients

7.2 Limits of a Function

7.3 Stationary Points

7.4 Standard Derivatives

7.5 Differentiation Techniques

Summary

Activities

8. Integration

8.1 Introduction

8.2 Rules of Integration

8.3 The Definite Integral

8.4 Area under a Curve

8.5 Techniques of Integration

Summary

Activities