



Algebra to Pre-Calculus

Section 1 – Algebra

Section 2 – Trigonometry

Section 3 – Pre-Calculus

Section 1 – Algebra

Exponent Rules

Operations with Radicals

Simplifying Algebraic Expressions

Working with Parentheses

Factorising Using a Common Factor

Operations with Algebraic Fractions

Solving Linear Equations / Equations with Parentheses / Inequalities

Solving Simultaneous Equations

Factorising a Quadratic Expressions

Solving Quadratic Equations

Section 2 – Trigonometry

Pythagoras' Theorem

The Converse of Pythagoras' Theorem

The Sine & Cosine Functions

The Graph of the Sine & Cosine Functions

The CAST Diagram

Starting Trigonometric Equations

Solving Trigonometric Equations Using a Calculator in Degrees

Solving Trigonometric Equations Using Exact Values in Degrees

Section 3 – Pre-Calculus

What are Functions?

Types of Function

Graphs of Common Functions

Determining Inverse Functions

Determining Composite Functions

Polynomial Expressions

Factorising Polynomial Expressions with a Given Factor

Solving Polynomial Equations