

PRE-CALCULUS

Week 1

Functions

Composition of functions

Inverse Functions

Graph of Functions

Polynomial Functions

Finding Factors & Zeros, Fundamental Theorem

Week 2

Rational Functions & Their Graphs

Exponential Functions, Equations & Their Graphs

Logarithmic Functions, Equations & Their Graphs

Week 3 & 4

Trigonometry

Trigonometric Ratios

Identities about Correlation within Trigonometric Ratios

Graph of Trigonometric Functions (Sine & Cosine Mainly)

Sum & Difference, Half or Double Angle Identities

Inverse Trigonometric Functions

Week 5

Matrix Algebra

Matrices

Subtraction & Addition

Multiplication of Matrices, Scalar Multiplication

Matrix Inverse

Row Operations

Solving System of Equations using Matrices

PRE-CALCULUS

Week 6

Conic Sections

Introduction to Conic Sections
Ellipse, Centre, Radii, Foci
Parabolas, Hyperbolas

Week 7

Vector Introduction

Addition & Subtraction
Scalar & Vector Multiplication
Word Problems

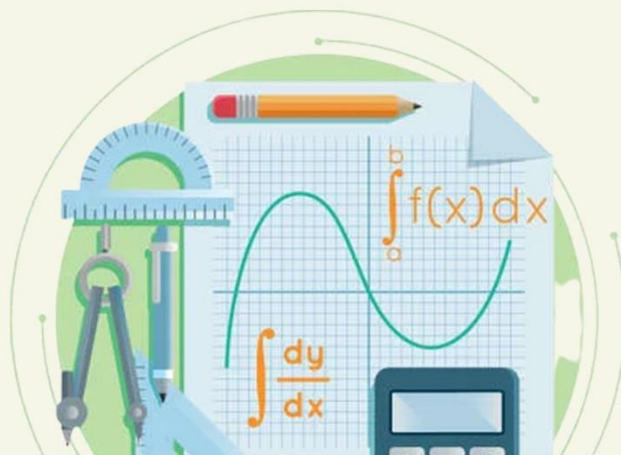
Week 8

Binomial Theorems

Mathematical Induction
Parametric Equations
Polar Coordinates, Conversion from Cartesian to Polar Coordinates

Week 9

Limits & Continuity



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