

2019 Higher Maths Prelim Study Group – Schedule

Saturday 12th January, 11:00-13:00

Functions & Calculus

Inverse & Composite Functions

Finding composite functions

Finding inverse functions

Differentiation

The Power Rule Review

The Chain Rule

Derivatives of Trig Functions

Chain Rule for Trig Functions

Gradients of Tangents

Stationary Points

Optimization

Rates of Change

Exponential & Logarithmic Functions

Switching between exponential and log form

Solving logarithmic equations

Saturday 12th January, 14:30-16:30

Polynomials, Trigonometry & Vectors

Polynomials

Quadratics review

Using the discriminant

Polynomial factors

Factors & graphs

Trigonometric Equations

Using the CAST method

Degrees & radians review

Solving in degrees & radians

Equations with double angles

Trigonometric Identities

The Wave Function

Vectors

Parallel vectors & collinear points

Angle between vectors