

Additional Mathematics Assessment

Paper 2

Wednesday 26th May 2021

11.30 - 12.50 (80 minutes)

TOPIC LIST

Manipulating square roots (Surd)

Factorising a cubic into a linear and a quadratic factor
(Possibly by making use of The Factor Theorem and algebraic long division)

Using differentiation to help find the equation of the tangent to a curve

Use of the Sine and Cosine Rules

Solving trigonometric equations.

(Including making use of the identity $\cos^2 x + \sin^2 x = 1$)

Using differentiation to find turning points of a curve and determining their nature.

Finding the length of a line segment between two points.

Finding the midpoint of a line segment between two points.

Finding the perpendicular bisector of a line segment between two points.

Problem solving using completing the square.

Similar triangles

Problem solving situations involving circles, straight lines and tangents.

Problem solving situations using The Factor Theorem.