

**YEAR 11 EXTENSION 1  
ASSESSMENT TASK  
TERM 1, WEEK 6, 2009**

**Date: Friday, 6<sup>th</sup> March**  
**Time Allowed: 1 period**

**Marks: 100**  
**Weighting: 10%**

**Outcomes Addressed**

- Performs routine arithmetic procedures including solving inequalities with the unknown in the denominator.
- Applies appropriate reasoning and justification in a geometric context.

Basic Arithmetic and Algebra

- Operations with surds including rationalising the denominator.
- Absolute value equations and inequalities.
- Quadratic equations and inequalities.
- Inequalities with the unknown in the denominator.
- Simultaneous equations.

Plane Geometry

- Properties of parallel lines cut by a transversal.
- Properties of triangles, including isosceles and equilateral triangles.
- Angle sum of a polygon and angle sum of exterior angles of a polygon.
- Tests for congruent triangles and similar triangles.
- Intercept properties on transversals.
- Pythagoras Theorem.
- Properties of the special quadrilaterals.
- Calculating areas.

**Instructions**

- Attempt all questions
- Show all necessary working
- Write in blue pen, black pen or dark pencil
- Approved calculators may be used

**NOTE:**

- Students who do not achieve the outcome (less than 40%) in this assessment task will receive an 'Official Warning' – non completion of the HSC course.
- Students will be required to re-sit the task within 7 days.
- Students will be given 2 further opportunities to achieve the required outcome.
- Failure to achieve the outcome may result in the student receiving an 'N' determination.