

9 Pathway A

END – YEAR EXAM 2010

SURDS (Ch 6)

- distinguish between rational & irrational numerical expressions
- simplify surds & form pure surds
- multiply & divide surds
- add/subtract surds
- standard and special binomial products
- rationalise denominators

QUADRATIC EXPRESSIONS (Ch 11)

- ALL methods of factorising e.g. grouping, diff. 2 sq., trinomials, harder trinomials
- Expressions requiring two factorising methods
- Simplifying algebraic fractions: multiply, divide, add, subtract.

PERIMETER & AREA (Ch 7 & handouts)

- review perimeter & exact ans
- review area formulae & exact ans
- non-numerical types

TRIGONOMETRY (Ch 14)

- trig ratio definitions
- solving triangles: find side, find angle (deg & min)
- solve triangles using exact ratio results for 30° , 45° , 60°
- problems involving AOE, AOD & bearings
- double triangle problems

COORDINATE GEOMETRY (Ch 10)

- ‘points’ theory: distance, mid-point, gradient
- Graphing straight lines
- $y = mx + b$, $ax + by + c = 0$ & $\square\square + \square\square = 1$ equation formats
- Finding x & y-intercepts
- Finding equations of lines: given point & grad., given two points
- Parallel & perp. lines
- Regions of the number plane

WORKING MATHEMATICALLY : any of the above areas

EXAM FORMAT (2 hours)

Multiple-choice, short-answer & free-response questions