

MAT 2005 Relevance Checker

- **Red:** Question not relevant for current syllabus.
- **Orange:** Question not entirely relevant for current syllabus but worth attempting. See comments.
- **Black:** Question relevant for current syllabus.

(A). Area Bounded Between Curves

This question is relevant for the current syllabus.

(B). Order 20 Polynomial Equation

This question is relevant for the current syllabus.

(C). Investigating Digits

This question is relevant for the current syllabus

(D). Trigonometric Equation

This question is relevant for the current syllabus, although a paper on the current syllabus would use degrees rather than radians.

(E). Circle Inscribed in Triangle

This question is relevant for the current syllabus.

(F). Counterexample

This question is relevant for the current syllabus.

(G). A Curvy Road

This question is on mechanics which isn't relevant for the current MAT syllabus.

(H). Consecutive Digits

This question is relevant for the current syllabus.

(I). Lines of Symmetry

This question is relevant for the current syllabus.

(J). Constrained Maximisation

This question is relevant for the current syllabus.

2. Family of Cubics

The entirety of this question is relevant for the current syllabus.

3. Behaviour of Graphs

This question requires advanced differentiation such as the product rule and as such is not relevant for the current syllabus.

4. Square Arrays

The entirety of this question is relevant for the current syllabus.

5. Circular Geometry

This question is relevant for the current syllabus.