

MAT 2002 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.

1. Multiple Choice

(A). Solutions of Cubic

This question is relevant for the current syllabus.

(B). Alleged Identities

This question is relevant for the current syllabus.

(C). Permuting Letters

This question is relevant for the current syllabus.

(D). Differentiating Nested Exponentials

This question uses the chain rule and is not relevant for the current syllabus.

(E). Largest Integral

This question is just about possible using graphical methods, and it may be worth attempting to do so (although a current paper would use degrees rather than radians) - see our solutions for details. However, the intent of the question setter was almost certainly to use integration by substitution to actually solve the integrals, which is a technique not relevant for the current syllabus.

(F). Bounding Logarithms

This question is relevant for the current syllabus.

(G). Hexagon and Circles

This question is relevant for the current syllabus.

(H). Washing Up

This question is relevant for the current syllabus.

(I). Valid Statements

This question is relevant for the current syllabus.

(J). Quintuple Angle Formula

This question is relevant for the current syllabus.

2. Quartic Equations

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

3. Cubic Turning Points

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

4. Absolute Values

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

5. Hexaglide

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