

MAT3

MATHEMATICAL TRIPOS

Part III

Thursday 5 June 2025 9:00 am to 12:00 pm

PAPER 102

LIE ALGEBRAS AND THEIR REPRESENTATIONS

Before you begin please read these instructions carefully

Candidates have **THREE HOURS** to complete the written examination.

Attempt no more than **FOUR** questions.

There are **FIVE** questions in total.

The questions carry equal weight.

STATIONERY REQUIREMENTS

Cover sheet

Treasury tag

Script paper

Rough paper

SPECIAL REQUIREMENTS

Triangular graph paper (3 sheets)

<p>You may not start to read the questions printed on the subsequent pages until instructed to do so by the Invigilator.</p>
