

Math2019A Exam scope (Revised) (5 June 2023)

The exam will cover the following Chapters:

1. Chapter 5 (Linear Transformations Matrices of linear operators)
 - All from this Chapter is examinable (included in the exam)
2. Chapter 6 (Eigenvalues and eigenvectors of linear operators)
 - Definition 6.1.1 included in the exam
 - Remark 6.1.1 included in the exam
 - Definition 6.1.2 included in the exam
 - Remark 6.1.2 included in the exam
 - Section 6.5 included in the exam
 - Section 6.6 included in the exam (in section 6.6, only exclude W.E. 6.6.1. (iii) and W.E.6.6.1. (iv))
 - Section 6.7 included in the exam

All Theorems, Definitions, statements, worked examples and exercises from the

Chapters and the sections should be studied and all exercises completed.

All proofs to Theorems, Remarks and any other results stated in the specified chapters and all included sections should be studied.

Students should be able to support their arguments using all work that has been studied in the course.