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GCSE MATHEMATICS

Higher Tier

Paper 1 Non-Calculator

H

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- mathematical instruments

You must not use a calculator.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.

For Examiner's Use

Pages	Mark
2-3	
4-5	
6-7	
8-9	
10-11	
12-13	
14-15	
16-17	
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web algebraic number theory studies the arithmetic of algebraic number fields the ring of integers in the number field the ideals and units in the ring of integers the extent to which unique factorization holds and so on

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web authors frazer jarvis provides a self contained and easy to read introduction to algebraic number theory with minimal

algebraic prerequisites introduces the theory of ideals in a historical context through the study of the failure of unique factorisation in number fields

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web a standard course in algebraic number theory discusses the proofs of the main results on integral bases discriminants dedekind rings class groups dirichlet s unit theorem etc in this semester i will instead concentrate on quadratic extensions of the rationals and of the rational function fields and introduce elliptic curves

number theory i mathematics mit opencourseware - Jun 05 2023

web course description this is the first semester of a one year graduate course in number theory covering standard topics in algebraic and analytic number theory at various points in the course we will make reference to material from other branches of mathematics including topology complex analysis representation theory and algebraic

daniel a marcus number fields university of toronto - Feb 18 2022

web zahlbericht namely lectures on the theory of algebraic numbers by erich hecke 5 this is the book from which i learned the subject although there are no exercises in it to mention andré weil again to improve on hecke in a treatise along classical lines of the theory of algebraic numbers would be a futile and impossible task