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MATHEMATICS P1

MAY/JUNE 2023

MARKS: 150

TIME: 3 hours

The question paper consists of 9 pages and 1 information sheet.



FULL MEMO

GRADE 12

MATHEMATICS

PAPER 1

NSC JUNE 2023



Maths Paper1 September 2014 Memo

Dana Ferguson



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Theory for Smale Spaces Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basics sets for an Axiom A diffeomorphism It is based on two ingredients The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite to one factor map The second is Krieger's dimension group invariant for shifts of finite type He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups The existence of such a theory was proposed by Bowen in the 1970s **International Tables for Crystallography** Mois I.

Aroyo, 2021-07-06 This sixth edition of what was previously known as the Brief Teaching Edition of Volume A provides an introduction to the basic crystallographic data for space groups found in Volume A for symmetry relations between space groups in Volume A1 and for subperiodic groups in Volume E of International Tables for Crystallography to magnetic space groups and to the symmetry database that forms part of International Tables Online at <https://it.iucr.org> It is designed for graduate students and young researchers who are new to the field of crystallographic symmetry and includes many illustrative examples to help readers to understand and use these different kinds of information Selected tables of symmetry data from the full volumes in the series are also included making this a handy aid for classroom teaching References are also provided to further specialized sources for those who need to go deeper into the subject and to textbooks for those who need more background information **Technical Abstract Bulletin**, 1981 **Book Review Index - 2009 Cumulation** Dana

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