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in most mathematics departments at major universities one of the three or four basic first year graduate courses is in the subject of

algebraic topology this introductory textbook in algebraic topology is suitable for use in a course or for self study featuring broad coverage of the subject and a readable exposition with many examples and exercises the four main chapters present the basic material of the subject fundamental group and covering spaces homology and cohomology higher homotopy groups and homotopy theory generally the author emphasizes the geometric aspects of the subject which helps students gain intuition a unique feature of the book is the inclusion of many optional topics which are not usually part of a first course due to time constraints and for which elementary expositions are sometimes hard to find among these are bockstein and transfer homomorphisms direct and inverse limits h spaces and hopf algebras the brown representability theorem the james reduced product the dold thom theorem and a full exposition of steenrod squares and powers researchers will also welcome this aspect of the book

this book serves as an introduction to number theory at the undergraduate level emphasizing geometric aspects of the subject the geometric approach is exploited to explore in some depth the classical topic of quadratic forms with integer coefficients a central topic of the book quadratic forms of this type in two variables have a very rich theory developed mostly by euler lagrange legendre and gauss during the period 1750 1800 in this book their approach is modernized by using the splendid visualization tool introduced by john conway in the 1990s called the topograph of a quadratic form besides the intrinsic interest of quadratic forms this theory has also served as a stepping stone for many later developments in algebra and number theory the book is accessible to students with a basic knowledge of linear algebra and arithmetic modulo n some exposure to mathematical proofs will also be helpful the early chapters focus on examples rather than general theorems but theorems and their proofs play a larger role as the book progresses

we prove a numerical form of a jacquet langlands correspondence for torsion classes on arithmetic hyperbolic 3 manifolds prové de l editor

the fascinating tale of the solving of the famous enigma in the shape of space part history and part maths in the world of maths the poincare conjecture was the holy grail mathematicians laboured over decades to crack it with the lure of academic recognition and a one million dollar prize at stake finally it has been solved by a reclusive russian who when he won the fields medal refused to attend the ceremony in favour of staying at home and watching television

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