Four Colour Problem

Summary:

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Four color theorem - Wikipedia In mathematics, the four color theorem, or the four color map theorem, states that, given any separation of a plane into contiguous regions, producing a figure called a map, no more than four colors are required to color the regions of the map so that no two adjacent regions have the same color. Four-Color Theorem -- from Wolfram MathWorld The four-color theorem states that any map in a plane can be colored using four-colors in such a way that regions sharing a common boundary (other than a single point) do not share the same color. This problem is sometimes also called Guthrie's problem after F. Guthrie, who first conjectured the theorem in 1852. The Four-Color Problem: Concept and Solution In 1879, A. Kempe (1845â€"1922) published a solution of the four-color problem. That is to say, he showed that any map on the sphere whatever could be colored with four colors.

The Four Colour Theorem : nrich.maths.org The Four Colour Theorem and Three Proofs. For the mathematically persistent the following website has an intriguing new approach to attacking the problem of constructing a new algorithm for solving the problem, and tying to reduce the reliance on a computer. The Four Color Problem - Flash game Color the map alternately with the other player. Four-colour map problem | Britannica.com Four-colour map problem: Four-colour map problem, problem in topology, originally posed in the early 1850s and not solved until 1976, that required finding the minimum number of different colours required to colour a map such that no two adjacent regions (i.e., with a common boundary segment) are of the same colour.

The Four Color Theorem - People | School of Mathematics The Four Color Theorem. This page gives a brief summary of a new proof of the Four Color Theorem and a four-coloring algorithm found by Neil Robertson, Daniel P. Sanders, Paul Seymour and Robin Thomas. The Four Color Theorem - MathPages The Four Color Theorem asserts that every planar graph - and therefore every "map" on the plane or sphere - no matter how large or complex, is 4-colorable. Despite the seeming simplicity of this proposition, it was only proven in 1976, and then only with the aid of computers. Four-colour problem - Encyclopedia of Mathematics The numerous attempts to solve the four-colour problem have influenced the development of certain branches of graph theory. In 1976 an affirmative answer to the four-colour problem, with the use of a computer, was announced (cf.). References.

Four Color Theorem | Brilliant Math & Science Wiki The four color theorem is particularly notable for being the first major theorem proved by a computer. Interestingly, despite the problem being motivated by mapmaking, the theorem is not especially important to the field as most maps were historically drawn with more than four colors (despite only four being necessary. The Four Color Map Theorem - Numberphile The Four Color Map Theorem (or colour!?) was a long-standing problem until it was cracked in 1976 using a "new" method... computers! A little bit of extra footage from this: https://youtu.be. Formal Proofâ€"The Four- Color Theorem The ï¬•rst step in the proof of the Four-Color Theorem consists precisely in getting rid of the topology, reducing an inï¬•nite problem in analysis to a ï¬•nite problem in combinatorics. This is usual-ly done by constructing the dualgraphof the map, and then appealing to the compactness theorem of propositional logic. However, as we shall see.

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