

lectures on hyperbolic geometry pdf

In mathematics, hyperbolic geometry (also called Bolyai's "Lobachevskian geometry or Lobachevskian geometry) is a non-Euclidean geometry. The parallel postulate of Euclidean geometry is replaced with: . For any given line R and point P not on R, in the plane containing both line R and point P there are at least two distinct lines through P that do not intersect R.

Hyperbolic geometry - Wikipedia

In mathematics, non-Euclidean geometry consists of two geometries based on axioms closely related to those specifying Euclidean geometry. As Euclidean geometry lies at the intersection of metric geometry and affine geometry, non-Euclidean geometry arises when either the metric requirement is relaxed, or the parallel postulate is replaced with an alternative one.

Non-Euclidean geometry - Wikipedia

This note is intended for students who have a background in multivariable calculus and some experience in proof-based mathematics. Topics covered includes: Euclidean geometry, Polygons, Triangulations and Tilings, The Chord Theorem, Tangrams and Scissors Congruence, Spherical Geometry, Hyperbolic geometry, Euclid's axioms and the parallel postulate, Incidence geometry and Hyperbolic isometries.

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Alan Schoen geometry

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