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Riemannian Geometry: Manfredo Perdigao do Carmo, Francis

This is a course note on Euclidean and non-Euclidean geometries with emphasis on (i) the contrast between the traditional and modern approaches to geometry, and (ii) the history and role of the parallel postulate.

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Euclidean geometry is a mathematical system attributed to Alexandrian Greek mathematician Euclid, which he described in his textbook on geometry: the Elements.Euclid's method consists in assuming a small set of intuitively appealing axioms, and deducing many other propositions from these.Although many of Euclid's results had been stated by earlier mathematicians, Euclid was the first to show ...

Euclidean geometry - Wikipedia

In classical mathematics, analytic geometry, also known as coordinate geometry or Cartesian geometry, is the study of geometry using a coordinate system.This contrasts with synthetic geometry.. Analytic geometry is widely used in physics and engineering, and also in aviation, rocketry, space science, and spaceflight.It is the foundation of most modern fields of geometry, including algebraic ...

Analytic geometry - Wikipedia

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Thales of Miletus, engineer (c. 624-546 BC) First sage of Greece, he founded classical geometry and natural philosophy.Alchemists have claimed him as one of their own. The theorem of Thales (one of two) is about two triangles with parallel sides: The pyramid's shadow is to the pyramid what a man's shadow is to the man []. ...

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