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## **Non-Euclidean geometry | mathematics | Britannica**

A parabola (plural "parabolas"; Gray 1997, p.  
45) is the set of all points in the plane  
equidistant from a given line  $L$  (the conic

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section directrix) and a given point  $F$  not on the line (the focus). The focal parameter (i.e., the distance between the directrix and focus) is therefore given by  $p=2a$ , where  $a$  is the distance from the vertex to the directrix or focus.

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INTRODUCTION TO DIFFERENTIAL GEOMETRY Joel W.  
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## **Events | Harvard Mathematics Department**

Differential geometry. The German mathematician Carl Friedrich Gauss (1777–1855), in connection with practical problems of surveying and geodesy, initiated the field of differential geometry. Using differential calculus, he characterized the intrinsic properties of curves and surfaces. For instance, he showed that the intrinsic curvature of a cylinder is the same as that of a plane, as can ...

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## Geometry | mathematics | Britannica

Curvature. In general, there are two important types of curvature: extrinsic curvature and intrinsic curvature. The extrinsic curvature of curves in two- and three-space was the first type of curvature to be studied historically, culminating in the Frenet formulas, which describe a space curve entirely in terms of its "curvature," torsion, and the initial starting point and direction.

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The purpose of this chapter is to provide a geological and geomechanical understanding of fracture formation, characteristics of various fracture types, network patterns, and internal structure. The geometry of fractures, their internal architecture, and present-day state of stress control fluid flow in fractured rocks. A geomechanical understanding of these properties provides an intellectual ...

## **Math-History Timeline**

Non-Euclidean geometry, literally any geometry that is not the same as Euclidean

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geometry. Although the term is frequently used to refer only to hyperbolic geometry, common usage includes those few geometries (hyperbolic and spherical) that differ from but are very close to Euclidean geometry (see table).

## **Curvature -- from Wolfram MathWorld**

A Time-line for the History of Mathematics  
(Many of the early dates are approximates)  
This work is under constant revision, so come back later. Please report any errors to me at richardson@math.wichita.edu.

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## **Differential geometry of surfaces - Wikipedia**

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## **Differential geometry - Wikipedia**

In mathematics, the differential geometry of  
surfaces deals with the differential geometry

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of smooth surfaces with various additional structures, most often, a Riemannian metric. Surfaces have been extensively studied from various perspectives: extrinsically, relating to their embedding in Euclidean space and intrinsically, reflecting their properties determined solely by the distance within ...

## **Modern Differential Geometry Of Curves**

Differential geometry is a mathematical discipline that uses the techniques of differential calculus, integral calculus,

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linear algebra and multilinear algebra to study problems in geometry. The theory of plane and space curves and surfaces in the three-dimensional Euclidean space formed the basis for development of differential geometry during the 18th century and the 19th century.

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include two mini-courses by Dawei Chen and Chris Leininger focusing on the algebraic and geometric aspects of this topics and two research talks by Diana Davis and Chaya Norton.

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