



Unit 1: Analytic Geometry in Calculus

Summary

Analytic geometry is a branch of mathematics that enables us to see the relationships between geometrical shapes and their mathematical representations, using coordinate systems. We begin Lesson 1.1 by considering the familiar—the Cartesian coordinate system—which describes space using a two-dimensional, rectangular coordinate system. Here, we examine how curves within the plane can be represented using parametric equations, and then we examine how our understanding of calculus is modified in this context.

In Lesson 1.2 we turn our attention to another coordinate system: the polar coordinate system. We study the properties of geometrical shapes defined by polar coordinates, as well as the relationship between the polar coordinate system and the Cartesian system.

We finish with Lesson 1.3 by studying geometrical shapes known as conic sections—their formulas, graphical representations and properties.

Lesson 1.1 Parametric Curves

Learning Objectives

When you have completed this lesson, you will be able to:

- represent curves with parametric equations.
- generate a function or implicit function for a parameterized curve.
- calculate tangents to parametric curves.
- calculate areas under parametric curves.
- calculate arc lengths of parametric curves.
- calculate surface areas defined by rotation of a parametric curve about an axis.

Activities

Reading: Chapter 10, Section 10.1: "Curves Defined by Parametric Equations"

Note: Be sure to read through all the examples.

Explore It: Section 10.1, including the "Explore & Test" exercises

- "Explore It: Parametric Curves"
- "Explore It: Families of Cycloids"

Lab: Lab 10.1: "Parametric Equations"

Study Guide For Analytic Geometry

Richard St. Andre

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Analytic Geometry and the Calculus Adolph Winkler Goodman,Cynthia Mansour,1980 **Student Study Guide,**
Calculus and Analytic Geometry, 7th, Thomas/Finney George B. Thomas,Maurice D. Weir,1988 **Analytic Geometry**
Gordon Fuller,1991-12-01 *Problems in Analytic Geometry* D. Kletenik,2019-02-11 **Elements of Calculus and**
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and methodologies involved in intermediate algebra and analytic geometry The publication first offers information on linear
equations in two unknowns and variables functions and graphs Discussions focus on graphic interpretations explicit and
implicit functions first quadrant graphs variables and functions determinate and indeterminate systems independent and
dependent equations and defective and redundant systems The text then examines quadratic equations in one variable
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second order determinants systems linear in quadratic terms systems treatable by substitution systems with a linear equation
and other systems treated by comparison The manuscript ponders on trigonometric functions and equations straight lines
and points distances and slopes including intersection points of lines perpendicular distances angles between lines positions
of points inverse trigonometric functions and trigonometric equations The publication is a valuable source of data for readers
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Thomas,1981 Geometry and Trigonometry for Calculus Peter H. Selby,1975-05-02 A review of plane geometry numerical
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