



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”

Analytic Geometry Eoct Study Guide With Explanations

Arturo Cuomo



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Pamphlet - Dept. of the Army United States. Department of the Army,1951 **Resources in Education** ,1990-10
Analysis and Calculation of Lightning-induced Voltages in Aircraft Electrical Circuits J. A. Plumer,1974 **Scientific**
and Technical Aerospace Reports ,1995 **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004
Engineering Aspects of Magnetohydrodynamics ,1979 *Preprints* , **Proceedings - Institution of Radio**
Engineers Institution of Radio Engineers, Australia,1961 **The Guide to Catholic Literature** Walter Romig,1944
Proceedings of the 1994 International Topical Meeting on Light Water Reactor Fuel Performance, West Palm Beach,
Florida, April 17-21, 1994 ,1994 **Proceedings of the ... International Topical Meeting on Light Water Reactor Fuel**
Performance ,1994 **International Aerospace Abstracts** ,1991 *Soviet Psychology 1950 - 1966* ,1968
Government Reports Announcements & Index ,1977-04 Proceedings ,1961 *Dissertation Abstracts*
International ,1990 **Government reports annual index** ,199? Government Reports Annual Index: Keyword A-L
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