



## 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 Unit 3a Study Guide

**Michael Rajnik**



## **Analytic Geometry Unit 3a Study Guide:**

**Resources in Education** ,1988      **Research in Education** ,1974      Calculus III Jerrold Marsden,Alan Weinstein,2012-12-06 The goal of this text is to help students learn to use calculus intelligently for solving a wide variety of mathematical and physical problems This book is an outgrowth of our teaching of calculus at Berkeley and the present edition incorporates many improvements based on our use of the first edition We list below some of the key features of the book Examples and Exercises The exercise sets have been carefully constructed to be of maximum use to the students With few exceptions we adhere to the following policies The section exercises are graded into three consecutive groups a The first exercises are routine modelled almost exactly on the exam ples these are intended to give students confidence b Next come exercises that are still based directly on the examples and text but which may have variations of wording or which combine different ideas these are intended to train students to think for themselves c The last exercises in each set are difficult These are marked with a star and some will challenge even the best studep ts Difficult does not necessarily mean theoretical often a starred problem is an interesting application that requires insight into what calculus is really about The exercises come in groups of two and often four similar ones      *Register of the University of California* University of California (1868-1952),1948      *Study Guide for Goodman and Saff's Calculus; Concepts and Calculations* Adolph Winkler Goodman,1981      **Course and Curriculum Improvement Projects: Mathematics, Science, Social Sciences** National Science Foundation (U.S.),1966      **College of Engineering** University of Michigan. College of Engineering,1983      *University of Michigan Official Publication* ,1966      **Briot and Bouquet's Elements of Analytical Geometry of Two Dimensions** Charles Briot,Bouquet (M., Jean Claude),1896      **Calculus III** Mehdi Rahmani-Andebili,2023-12-06 This study guide is designed for students taking a Calculus III course The textbook includes examples questions and practice problems that will help students to review and sharpen their knowledge of the subject and enhance their performance in the classroom The material covered in the book includes linear algebra and analytical geometry lines surfaces and vector functions in three dimensional coordinate systems multiple variable functions multiple integrals and their applications line integrals and their applications Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve students problem solving skills and foster a solid understanding of calculus which will benefit them in all of their calculus based courses      University of Kentucky Catalogue University of Kentucky,1967      **Catalogue** Tufts University,1898      **General Catalogue** Santa Barbara State Teachers College,1970      **Register** University of California, Berkeley,1954      *Summer Sessions* University of California, Davis,1962      *Bulletin* United States. Office of Education,1954      Bulletin ,1954      **Teaching Rapid and Slow Learners in High Schools** Romaine Prior Mackie (1898-),Abul Hassan K. Sassani,Clayton D. Hutchins,Elizabeth (Nelson) Layton,Gertrude Minnie Lewis,Henry Horton Armsby,Nora Ernestine Beust,United States. Office of Education,Wilhelmina Hill,Helen Katherine Mackintosh,Lloyd M. Dunn,1954      **Statistics of**

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