



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 Eoct Analytic Geometry Key

**Addison-Wesley Longman,
Incorporated, Maurice D. Weir**



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Analytic Geometry Gordon Fuller,1991-12-01 **Analytic Geometry and the Calculus** Adolph Winkler Goodman,Cynthia Mansour,1980 *Elements of Calculus and Analytic Geometry/Student Study Guide* Addison-Wesley Longman, Incorporated,Maurice D. Weir,1989 *Geometry* Steve Slavin,Ginny Crisonino,2004-10-28 Learn geometry at your own pace What are congruent circles How do you find the hypotenuse of a triangle What is the sum of the angles in a decagon How can you apply geometric equations to your daily life With the unbeatable study companion *Geometry A Self Teaching Guide* you ll discover the answers to these questions and many more This thorough primer presents an easy to follow proven method for grasping the key concepts of geometry You ll progress step by step through plane solid and analytic geometry and then move on to geometric applications for calculus You ll build your problem solving skills along the way through detailed examples reviews exercises and answer explanations The clearly structured format of *Geometry* makes it fully accessible providing an easily understood comprehensive overview for everyone from high school students to adult learners to math mavens Like all Self Teaching Guides *Geometry* allows you to build gradually on what you have learned at your own pace Questions and self tests reinforce the information in each chapter and allow you to skip ahead or focus on specific areas of concern Packed with useful up to date information this clear concise volume is a valuable learning tool and reference source for anyone who wants to improve his or her understanding of basic geometry *Student Study Guide, Calculus and Analytic Geometry, 7th, Thomas/Finney* George B. Thomas,Maurice D. Weir,1988 **Calculus and Analytic Geometry** Maurice D. Weir,1988 **Calculus and Analytic Geometry** Richard St. Andre,1982 **Analytic Geometry** Peter H. Selby,1985 A survey of the basic concepts of analytic geometry includes discussions of equations circles parabola tangents and quadric surfaces **Analytic Geometry** Selby,1993-01-01 **Problems in Analytic Geometry** D. Kletenik,2019-02-11 *Problems in Analytic Geometry* David Viktorovich Kletenik,1965 *Calculus and Analytic Geometry, Mizrahi and Sullivan* Richard St. André,1982 *Student's Study Guide, Calculus and Analytic Geometry, 8th Edition, Thomas/Finney* Maurice D. Weir,1992 **Analytic Geometry and Calculus 1** Philip Gillett,1965 **Analytic Geometry** C. O. Oakley,1957 **Calculus and Analytic Geometry** George B. Thomas,1985 **Analytic Geometry for Colleges, Universities, and Technical Schools** Edward West Nichols,2023-07-18 This book is a comprehensive guide to analytic geometry including principles and applications It is a must have reference for students and professors in colleges universities and technical schools This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an

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Elements of Calculus and Analytic Geometry Maurice D. Weir,1989

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