



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 Ccgps Eoct Study Guide

Gordon Fuller



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Passing the CCGPS Analytic Geometry End-Of-Course Test - 25 Book Set American Book Company Staff,2013

Analytic Geometry and the Calculus Adolph Winkler Goodman,Cynthia Mansour,1980 *Passing the CCGPS Analytic Geometry End-Of-Course Test* American Book Company Staff,2013 **Elements of Calculus and Analytic**

Geometry/Student Study Guide Addison-Wesley Longman, Incorporated,Maurice D. Weir,1989 *Analytic Geometry*

Gordon Fuller,1991-12-01 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 Student Study Guide, Calculus and Analytic Geometry, 7th, Thomas/Finney George B.

Thomas,Maurice D. Weir,1988 Calculus and Analytic Geometry Maurice D. Weir,1979 Analytic Geometry

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