



MODULE 4: ANALYTIC GEOMETRY

UNIT 1: STRAIGHT LINES

Learning outcomes:

At the end of the module, you should have achieved the following topic learning outcomes:

1. Determine the equation of a straight line using the point-slope form, the slope-intercept form, intercept form, and the normal form.
2. Determine the equations of parallel and perpendicular lines.

The Straight Line

A polynomial whose highest power is one represents a straight line. In this section, we will limit our discussion for the straight lines in the standard form $Ax + By = C$.

Recall: Two points determine a line. This statement simply tells us that we just need two points on the Cartesian plane to be able to draw the line.

A. Point-Slope Form: $y - y_1 = m(x - x_1)$

If we are given a point on the line, say $P_1(x_1, y_1)$ and the slope of the line m , we can determine the equation of the line.

Example 1: Given the slope of the line is $m = \frac{1}{2}$ and the line passes through the point $P_1(2, -3)$. Determine the equation of the line.

Using the point-slope form of the line: $y - y_1 = m(x - x_1)$, we substitute the slope and the given point,

$$\begin{aligned}y - y_1 &= m(x - x_1) \\y - (-3) &= \frac{1}{2}(x - 2) \\2(y + 3) &= (x - 2) \\2(y + 3) &= (x - 2) \\2y + 6 &= x - 2 \\x - 2y &= 8\end{aligned}$$

Example 2: Given the slope of the line is $m = -5$ and the line passes through the point $P_1(\frac{3}{4}, 0)$. Determine the equation of the line.

Using the point-slope form of the line: $y - y_1 = m(x - x_1)$, we substitute the slope and the given point,

$$\begin{aligned}y - y_1 &= m(x - x_1) \\y - 0 &= -5(x - \frac{3}{4}) \\y &= -5x + \frac{15}{4} \\5x + y &= \frac{15}{4} \\20x + 4y &= 15\end{aligned}$$

Analytic Geometry Unit 1

**George Alexander Gibson, Peter
Pinkerton**



Analytic Geometry Unit 1:

Elements of Analytical Geometry Charles Davies, 1874 Analytic Geometry Preston Albert Lambert, 1897 **Calculus with Analytic Geometry** Murray H. Protter, Philip E. Protter, 1988 Study Guide for College Algebra and Trigonometry James W. Snow, Bernard Kolman, Arnold Shapiro, 2014-05-10

Study Guide for College Algebra and Trigonometry is a supplement material to the basic text College Algebra and Trigonometry. It is written to assist the student in learning mathematics effectively. The book provides detailed solutions to exercises found in the text. Students are encouraged to use these solutions to find a way to approach a problem. The Study Guide and Solutions Manual consists of four major components: basic concepts that should be learned from each unit; what was learned upon completion of each unit; solutions to selected problems; and a short chapter quiz including the answers covering the concepts and problem types. Students of algebra and trigonometry in the college level will find the book very useful.

Study Guide for College Algebra James W. Snow, Bernard Kolman, Arnold Shapiro, 2014-05-10

Study Guide for College Algebra is a supplemental material for the basic text College Algebra. Its purpose is to make the learning of college algebra and trigonometry easier and enjoyable. The book provides detailed solutions to exercises found in the text. Students are encouraged to use the study guide as a learning tool during the duration of the course, as a reviewer prior to an exam, as a reference book, and as a quick overview before studying a section of the text. The Study Guide and Solutions Manual consists of four major components: basic concepts that should be learned from each unit; what was learned upon completion of each unit; solutions to selected problems; and a short chapter quiz including the answers covering the concepts and problem types. College level students will find the book very useful.

An Elementary Treatise on Analytical Geometry William Woolsey Johnson, 1869 **The Elements of Analytical Geometry ; Elements of the Differential and Integral Calculus. Rev. Ed** Elias Loomis, 1878 **The Elements of Analytical Geometry** Elias Loomis, 1877 **Spectral Theory and Analytic Geometry Over Non-Archimedean Fields** Vladimir G. Berkovich, 1990

The purpose of this book is to introduce a new notion of analytic space over a non Archimedean field. Despite the total disconnectedness of the ground field, these analytic spaces have the usual topological properties of a complex analytic space, such as local compactness and local arcwise connectedness. This makes it possible to apply the usual notions of homotopy and singular homology. The book includes a homotopic characterization of the analytic spaces associated with certain classes of algebraic varieties and an interpretation of Bruhat Tits buildings in terms of these analytic spaces. The author also studies the connection with the earlier notion of a rigid analytic space. Geometrical considerations are used to obtain some applications, and the analytic spaces are used to construct the foundations of a non Archimedean spectral theory of bounded linear operators. This book requires a background at the level of basic graduate courses in algebra and topology, as well as some familiarity with algebraic geometry. It would be of interest to research mathematicians and graduate students working in algebraic geometry, number theory, and p -adic analysis.

Analytic Geometry Clyde Elton Love, 1923

Elements of Analytical Geometry George Alexander Gibson, Peter Pinkerton, 1919 University Algebra: Embracing a Logical Development of the Science Charles Davies, 1871 **Manual of Algebra** William Guy Peck, 1875 Outlines of Mathematical Science for the School Room Charles Davies, 1873 **Register** University of California, Berkeley, 1896
Leaves and Flowers Alphonso Wood, 1873 **College Algebra** Dennis Zill, Jacqueline Dewar, 2010-12-16 With an emphasis on problem solving and packed with engaging student friendly exercise sets and examples the Third Edition of Zill and Dewar's College Algebra is the perfect text for the traditional college algebra course Zill's renowned pedagogy and accessible straightforward writing style urges students to delve into the content and experience the mathematics first hand through numerous problem sets These problem sets give students the opportunity to test their comprehension challenge their understanding and apply their knowledge to real world situations A robust collection of student and instructor ancillaries include WebAssign access PowerPoint Lecture Slides Test Bank Student Resource Manual and more **New Elementary Algebra** Charles Davies, 1875 **Calculus and Analytic Geometry** Donald W. Trim, 1983 **Elements of Surveying and Levelling** Charles Davies, 1874

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Analytic Geometry Unit 1 Introduction

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