

Problem 1 – Mathematics (Analytic Geometry)

Find the distance from the point (5, -3) to the line $7x - 4y - 28 = 0$.

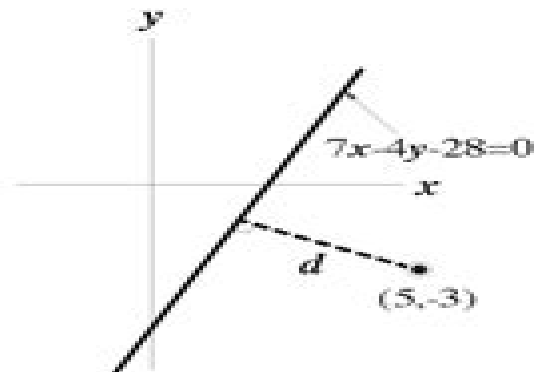
Solution:

$$d = \frac{Ax_1 + By_1 + C_1}{\sqrt{A^2 + B^2}}$$

$$d = \frac{(-) \quad (7x_1 - 4y_1 + 28)}{(-) \quad \sqrt{(7)^2 + (-4)^2}}$$

$$d = \frac{7(5) - 4(-3) - 28}{\sqrt{65}}$$

$$d = 2.36$$



Problem 2 – Mathematics (Analytic Geometry)

Find the area bounded by the line $2x - y + 10 = 0$ and the coordinate axes.

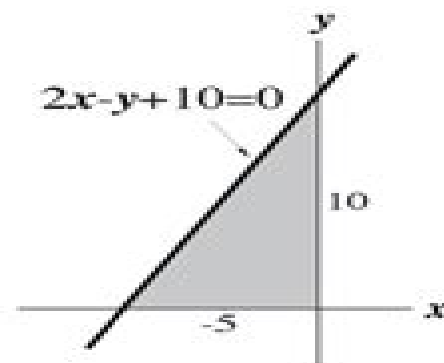
Solution:

$$2x - y + 10 = 0$$

$$\begin{array}{ll} \text{when } x = 0 & y = 10 \\ & y = 0 \quad x = -5 \end{array}$$

$$A = \frac{5(10)}{2}$$

$$A = 25$$



Analytic Geometry Unit 1

Murray H. Protter, Philip E. Protter



Analytic Geometry Unit 1:

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Geometry D Kletenik, 2002 A translation of a Soviet text covering plane analytic geometry and solid analytic geometry

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Calculus with Analytic Geometry Murray H. Protter, Philip E. Protter, 1988 **The Elements of Analytical Geometry** Elias Loomis, 1877 **Elements of Analytical Geometry and of the Differential and Integral Calculus** Charles Davies, 1860 *Introduction to Complex Analytic Geometry* Stanislaw Lojasiewicz, 2013-03-09 facts An elementary acquaintance with topology algebra and analysis including the notion of a manifold is sufficient as far as the understanding of this book is concerned All the necessary properties and theorems have been gathered in the preliminary chapters either with proofs or with references to standard and elementary textbooks The first chapter of the book is devoted to a study of the rings $\mathcal{O}_a$ of holomorphic functions The notions of analytic sets and germs are introduced in the second chapter Its aim is to present elementary properties of these objects also in connection with ideals of the rings $\mathcal{O}_a$ The case of principal germs 5 and one dimensional germs Puiseux theorem 6 are treated separately The main step towards understanding of the local structure of analytic sets is Ruckert's descriptive lemma proved in Chapter III Among its consequences is the important Hilbert Nullstellensatz 4 In the fourth chapter a study of local structure normal triples 1 is followed by an exposition of the basic properties of analytic sets The latter includes theorems on the set of singular points irreducibility and decomposition into irreducible branches 2 The role played by the ring $\mathcal{O}_A$ of an analytic germ is shown 4 Then the Remmert Stein theorem on removable singularities is proved 6 The last part of the chapter deals with analytically constructible sets 7 **The Elements of Analytical Geometry ; Elements of the Differential and Integral Calculus. Rev. Ed** Elias Loomis, 1878

A Collection of Problems in Analytical Geometry D. V. Kletenik, 2016-06-06 A Collection of Problems in Analytical Geometry Part II Three Dimensional Analytical Geometry is a collection of problems dealing with analytical geometry in the

field of theoretical mechanics The book discusses rectangular Cartesian coordinates in three dimensional space and the division of an interval in a given ratio The sample questions concern problems dealing with isosceles triangles vertices and center of gravity of equal masses The book defines the concept of a vector and then lists problems concerning the triangle law and the scalar product of two vectors Other problems focus on the equations of a surface and a curve and on questions related to the intersection of three surfaces The text lists other problems such as the equation of a plane the direction vector of a straight line and miscellaneous problems pertaining to the equations of a plane of a straight line and of a sphere in a direction vector The selection is useful for professors in analytical geometry and for other courses in physic mathematics and general engineering *Register of the University of California* University of California, Berkeley, 1894 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 a reviewer prior to an exam 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 **University of Michigan Official Publication** ,1960 **General Register** University of Michigan, 1960 Announcements for the following year included in some vols **College of Engineering** University of Michigan. College of Engineering, 1970 *Topological Recursion and its Influence in Analysis, Geometry, and Topology* Chiu-Chu Melissa Liu, Motohiko Mulase, 2018-11-19 This volume contains the proceedings of the 2016 AMS von Neumann Symposium on Topological Recursion and its Influence in Analysis Geometry and Topology which was held from July 4 8 2016 at the Hilton Charlotte University Place Charlotte North Carolina The papers contained in the volume present a snapshot of rapid and rich developments in the emerging research field known as topological recursion It has its origin around 2004 in random matrix theory and also in Mirzakhani's work on the volume of moduli spaces of hyperbolic surfaces Topological recursion has played a fundamental role in connecting seemingly unrelated areas of mathematics such as matrix models enumeration of Hurwitz numbers and Grothendieck's dessins d'enfants Gromov Witten invariants the A polynomials and colored polynomial invariants of knots WKB analysis and quantization of Hitchin moduli spaces In addition to establishing these topics the volume includes survey papers on the most recent key accomplishments discovery of the unexpected relation to semi simple cohomological field theories and a solution to the remodeling conjecture It also provides a glimpse into the future research direction for example connections with the Airy structures modular functors Hurwitz Frobenius manifolds and ELSV type formulas

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