

# Grade 10

## Analytical Geometry

In the diagram alongside,  $\triangle ABC$  is drawn with  $A(-3;1)$ ,  $B(2;4)$  and  $C(0;-3)$ .

### ① Distance formula:

This is used to determine the distance between two points and to determine the length of a line segment connecting two points.

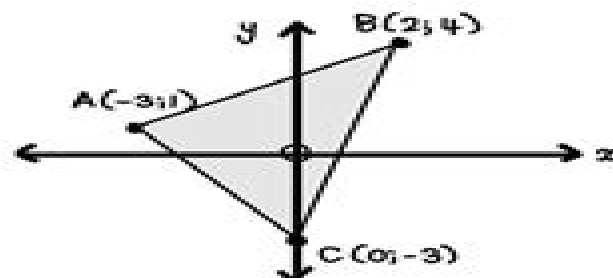
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

eg.  $AB = \sqrt{(-3-2)^2 + (1-4)^2}$   
 $= \sqrt{34}$  units or 5.83 units

you will get the same answer if you use:

$$\sqrt{(x_a - x_b)^2 + (y_a - y_b)^2}$$

and  $\sqrt{(x_b - x_a)^2 + (y_b - y_a)^2}$



This formula can be used when answering questions such as:

- classify a triangle – calculate the lengths of the sides
  - if all sides are equal, it is an equilateral triangle
  - if only two sides are equal, it is an isosceles triangle
  - if none of the sides are equal, it is a scalene triangle
- classify a quadrilateral – calculate the lengths of the sides
  - if both pairs of opposite sides are equal, it is a parallelogram or rectangle
  - if all four sides are equal, it is a square or rhombus
  - if both pairs of adjacent sides are equal, it is a kite



# Analytical Geometry 10th Grade

**United States. Office of Education**

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the United States Office of Education text.

## **Analytical Geometry 10th Grade:**

Maths Handbook & Study Guide Grade 10 Kevin Smith, 2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back Mathematics Education in Korea Jinho Kim, 2013 This book will introduce the history and practices of mathematics education in Korea How it has been influenced from Japan America and other countries and has developed into the unique Korean style of mathematics education The editors have planned to include most of the topics researchers outside Korea want to know mathematics education in Korea **Subject Offerings and Enrollments in Public Secondary Schools** United States. Office of Education, Grace Stevens Wright, 1965 **Patterns of Course Offerings and Enrollments in Public Secondary Schools, 1970-71** United States. Office of Education, 1972 **Mathematics 1: Japanese Grade 10** 数学Ⅰ, 1996 This is the translation from the Japanese textbook for the grade 10 course Basic Mathematics The book covers the material which is a compulsory for Japanese high school students The course comprises algebra including quadratic functions equations and inequalities trigonometric functions and plane coordinate geometry The Ohio Educational Monthly and the National Teacher, 1885 *Mathematics Curriculum in Pacific Rim Countries - China, Japan, Korea, and Singapore* Zalman Usiskin, Edwin Willmore, 2008-09-01 This volume contains the proceedings of the First International Curriculum Conference sponsored by the Center for the Study of Mathematics Curriculum CSMC The CSMC is one of the National Science Foundation Centers for Learning and Teaching Award No ESI 0333879 The countries China Japan Korea and Singapore in alphabetical order which also happens to be the order of their populations have each been in the news because of their performance on international tests and or their economic performance and potential They also have centralized education ministries that create a single mathematics curriculum framework followed in the entire country In all these countries curricula are differentiated for students with different interests usually around Grade 10 or 11 We think the reader will agree that the papers are of very high quality befitting the standing of the individuals who were invited but particularly notable for our international speakers because in three of these countries English is not the speaker's first language Following each paper we have included a short biography of the author's so that the reader can understand the perspective of the paper's author **Do Gatekeeper Courses Expand Education Options?** Robert Atanda, 1999 *Education; executive office,*

*health and welfare, highways and traffic, sanitary engineering, testimony of members of Congress, and other interested individuals and organizations* United States. Congress. House. Committee on Appropriations, 1969      **Canadian**  
**Mathematical Bulletin**, 1959

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