

# 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.

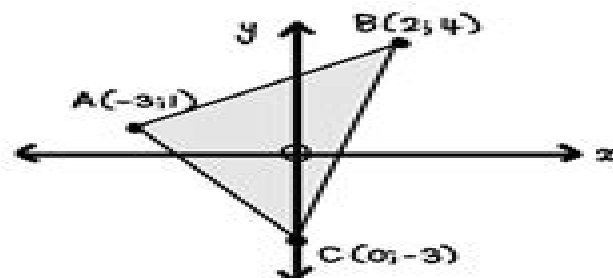
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

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



# Geometry Grade 10 Textbook

**Jianpan Wang,Lianghuo Fan,Binyan Xu**

## Geometry Grade 10 Textbook:

**Math Common Core Geometry - 10Th Grade** BarCharts, Inc, Ken Yablonsky, 2014-05-31 Students parents and teachers can easily find answers related to the specific requirements of The Common Core State Standards for Mathematics This set of expectations and skills need to be mastered to succeed in school college and the real world The QuickStudy series aligns with those standards being implemented in most states to help guide students through their classes and to support parents helping their students succeed Each guide in the series focuses on critical areas of the curriculum and features real world problems examples illustrations and tables to help students excel **Russian Mathematics Education** Alexander Karp, 2010 Volume I entitled Russian Mathematics Education History and World Significance consists of several chapters written by distinguished authorities from Russia the United States and other nations It Examines the history of mathematics education in Russia and its relevance to mathematics education throughout the world The second volume entitled Russian Mathematics education is highly respected for its achievements and was once very influential internationally it has never been explored in depth This publication does just that Book Jacket *Geometry Workbook for High School: Geometry Book for 9th and 10th Grade* Samantha McMillan, 2019-08-02 Geometry Workbook for High School Geometry Book for 9th and 10th Grade Give your student all the geometry help they will need With these geometry worksheets you will be familiar with geometry basics Check out all of the contents of this geometry set workbook Points Lines and Planes Learn about parallel and intersecting lines properties of angles and how to use a protractor Polygons You ll be able to classify triangles know the Pythagorean theorem and calculate area and perimeter Solid Figures From the different types of solid figures you ll figure out the surface area and volume The Coordinate Plane Geometry Get tested on the equations of lines Practice Geometry Problems Every practice problem comes with an in depth geometry answers and explanations It s a geometry math book your child will love *School Mathematics Textbooks In China: Comparative Studies And Beyond* Jianpan Wang, Lianghuo Fan, Binyan Xu, 2021-01-28 Our collected work contains mathematics education research papers Comparative studies of school textbooks cover content selection compilation style representation method design of examples and exercises mathematics investigation the use of information technology and composite difficulty level to name a few Other papers included are about representation of basic mathematical thought in school textbooks a study on the compilation features of elementary school textbooks and a survey of the effect of using new elementary school textbooks *High School Math Common-Core Geometry Grade 9/10* Prentice Hall, Pearson Education, Inc., 2011-06-01 The Teaching of General Mathematics in the Secondary Schools of the United States Clarence McCormick, 1929 Circular Relative to Textbooks for Elementary and High Schools Saskatchewan. Dept. of Education, 1971 **The Bulletin of Mathematics Books** ,1992 **Resources in Education** ,1974 **A Classified Catalogue of Educational Works in Use in the United Kingdom and Its Dependencies in 1887 ...** ,1887 Research in Education ,1974 Illinois Textbook Program, 1979-1980 ,1979

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whichever is convenient step 2 substitute this value of  $y$  in the other equation and