

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.

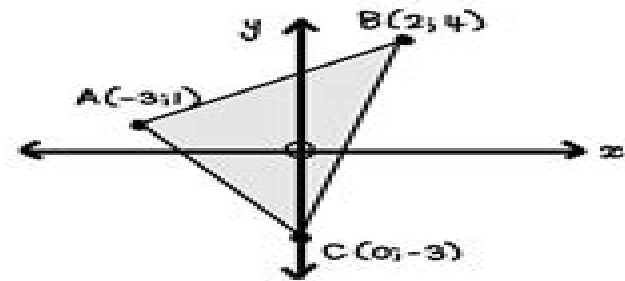
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

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

Sabine Zange



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