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are used to algebraically prove geometric results, but they are especially useful in proving results involving circles and/or regular polygons (unlike Cartesian coordinates, which are useful for proving results involving lines).

### Complex Numbers in Geometry | Brilliant Math & Science Wiki

A complex number is a number of the form  $a + bi$ , where  $a$  and  $b$  are real numbers, and  $i$  is an indeterminate satisfying  $i^2 = -1$ . For example,  $2 + 3i$  is a complex number. This way, a complex number is defined as a

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polynomial with real coefficients in the single indeterminate  $i$ , for which the relation  $i^2 + 1 = 0$  is imposed. Based on this definition, complex numbers can be added and multiplied, using the addition and multiplication for polynomials.

## Complex number - Wikipedia

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To do this as complex numbers is more difficult as we shall now see. In the form  $A + j B$  we have the following. P1 has coordinates  $A_1 = 3 \cos 45 = 2.121$  and  $B_1 = 3 \sin 45 = 2.121$  P2 has coordinates  $A_2 = 2 \cos 30 = 1.732$  and  $B_2 = 2 \sin 30 = 1.0$ .  $P_1 = 2.121 + j 2.121$  and  $P_2 = 1.732 + j 1$ .

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Complex numbers can be geometrically represented as points in the plane, with Cartesian coordinates given by the real numbers of their describing expression, or as the arrows from the origin to these points, specified by their length and an angle enclosed with some distinct direction. Addition then corresponds to combining the arrows to the intuitive parallelogram (adding the Cartesian coordinates), and the

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Multiplication is –less intuitively– combining rotating and scaling of the arrows ...

## Field (mathematics) - Wikipedia

3The term 'complex number' is due to the German mathematician Carl Gauss (1777-1855). Gauss is considered by many the greatest mathematician ever. He made major contributions to almost every area of mathematics from number theory and non-Euclidean geometry, to astronomy and magnetism.

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Complex Numbers - Mathematical Institute |  
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Complex analysis is one of the classical branches in mathematics, with roots in the 18th century and just prior. Important mathematicians associated with complex numbers include Euler, Gauss, Riemann, Cauchy, Weierstrass, and many more in the 20th century.

Complex analysis - Wikipedia

Complex numbers are often represented on the complex plane, sometimes known as the Argand plane or Argand diagram. In the complex

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plane, there are a real axis and a perpendicular, imaginary axis.

## Complex Numbers | Brilliant Math & Science Wiki

The beautiful Mandelbrot Set (pictured here) is based on Complex Numbers.. It is a plot of what happens when we take the simple equation  $z^2 + c$  (both complex numbers) and feed the result back into  $z$  time and time again.. The color shows how fast  $z^2 + c$  grows, and black means it stays within a certain range.. Here is an image made by zooming into the Mandelbrot set



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## Complex Numbers - MATH

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1. Complex numbers The equation  $x^2 + 1 = 0$  has no solutions, because for any real number  $x$  the square  $x^2$  is nonnegative, and so  $x^2 + 1$  can never be less than 1. In spite of this it turns out to be very useful to assume that there is a number  $i$  for which one has (1)  $i^2 = -1$ .

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List of mathematical symbols by subject -  
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But the amazing thing is that “pure” theory of complex numbers, complex functions and complex analysis has applications almost everywhere you look, and not just within mathematics. If you have studied physics, you may already have met complex numbers and functions when looking at impedance, phase angles, and oscillating currents.

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Ordinary complex numbers in the Lobachevskii plane; double numbers as oriented lines of the Lobachevskii plane; dual numbers as oriented lines of a plane; most general complex numbers; and double, hypercomplex, and dual numbers. The text then takes a look at circular transformations and circular geometry, including ordinary circular transformations, axial circular transformations of the Lobachevskii plane, circular transformations of the Lobachevskii plane, axial circular transformations, and ordinary circular transformations. The manuscript is intended for pupils in high

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calculus. Chapter 8 glimpses several appealing topics, simultaneously unifying the book and opening the door to further study. The 280 exercises range from simple computations to difficult problems. Their variety makes the book especially attractive. A reader of the first four chapters will be able to apply complex numbers in many elementary contexts. A reader of the full book will know basic one complex variable theory and will have seen it integrated into mathematics as a whole. Research mathematicians will discover several novel perspectives.

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