



Complex Conjugate

By Frederic P. Miller

Alphascript Publishing Dez 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x8 mm. Neuware - In mathematics, complex conjugates are a pair of complex numbers, both having the same real part, but with imaginary parts of opposite signs.[1][2] For example, $3 + 4i$ and $3 - 4i$ are complex conjugates. The conjugate of the complex number $z = a + ib$, where a and b are real numbers, is $\overline{z} = a - ib$. An alternate notation for the complex conjugate is $\bar{z}$. However, the $\bar{z}$ notation avoids confusion with the notation for the conjugate transpose of a matrix, which can be thought of as a generalization of complex conjugation. If a complex number is represented as a 2×2 matrix, the notations are identical. For example, $\overline{\{3-2i\}} = 3 + 2i$ and $\overline{-i} = i$. Complex numbers are often depicted as points in a plane, which is a variation of the Cartesian coordinate system (see diagram). The x-axis contains the real numbers and the y-axis contains the multiples of i . In this view, complex conjugation corresponds to reflection at the x-axis. In polar form, the conjugate of $re^{i\theta}$ is $re^{-i\theta}$. Euler's formula confirms this. 128 pp. Englisch.



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