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# 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  $2 \times 2$  matrix, the notations are identical. For example,  $\overline{(3-2i)} = 3 + 2i$   $\overline{7} = 7$   $\overline{-i} = i$ . 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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