

Complex conjugate

Complex conjugation means reflecting the complex plane in the real line.

The notation for the *complex conjugate* of z is either \bar{z} or z^* . The complex conjugate has the same real part as z and the same imaginary part but with the opposite sign. That is, if $z = a + ib$, then $z^* = a - ib$.

In polar complex form, the complex conjugate of $re^{i\theta}$ is $re^{-i\theta}$.