1-4 Complex Conjugates

Notation for conjugates:

$$z*=ar{z}=x-iy$$

Note that

$$Re(z)=Re(z*),\ Im(z)=-Im(z)$$

Because of this, a complex conjugate (on the plane) is a reflection of the original complex number along the x-axis.

Because of the stated properties of the real and imaginary parts, if z is real, then z*=z.