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Mathematical Methods in Engineering by Joseph M. Powers

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In the case where z can be written in the form $x+iy$ it is easily verified, by direct multiplication of the components, that the product $z\bar{z}$ gives a real result:

$z\bar{z} = (x+iy)(x-iy) = x^2 - i^2y^2 = x^2 + y^2 = |z|^2$. Complex conjugation corresponds to a reflection of z in the real axis of the Argand diagram, as may be seen in Figure 3.6.

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