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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 zz^* gives a real result: $zz^*=(x+iy)(x-iy)=x^2-y^2+ixy-ixy=i^2y^2=-y^2-x^2+y^2=-x^2-y^2=|z|^2$. Complex conjugation corresponds to a reflection of z in the real axis of the Argand diagram, as may be

seen in ?gure 3.6.

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