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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:  $zz^*=(x+iy)(x-iy)=x^2-ixy+ixy-i^2y^2=x^2+y^2=|z|^2$ .

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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