Parity of General Complex Numbers

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In this paper I prove the parity of normal complex numbers, dual numbers, and split complex numbers.

For a single dimension, there are 3 kinds of complex numbers:

| $x^2 = -1$ | Normal complex number | x = i |
|------------|-----------------------|-------------------|
| $x^2 = 0$ | Dual complex number | $x = \varepsilon$ |
| $x^2 = 1$ | Split complex number | x = j |

It is known that:

Therefore, the parity of general complex numbers can be extended:

i : oddε : evenj : odd