Answer on Question #58285 – Math – Complex Analysis

Question

Let $z \in \mathbb{C}$, then $|z| \in \cdots$

Solution

If $z \in \mathbb{C}$, then $|z| \in \mathbb{R}$. Indeed, the modulus of any complex number $z = a + bi$ is defined by $|z| = \sqrt{a^2 + b^2}$, which is already a real number.

Answer: $|z| \in \mathbb{R}$.