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complex plane is known as the argand diagram and we refer respectively to the real and imaginary axes $z = x + iy$ since \mathbb{C}^2 is a real vector space under addition we have several immediate properties lemma 1.2 basic properties of complex addition

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complex analysis notes harvard university Aug 08 2021 web 1 preliminaries to complex analysis the complex numbers is a field \mathbb{C} that is complete with respect to the modulus norm $\|z\| = |z|$ every $z \in \mathbb{C}$ can be uniquely represented as $z = re^{i\theta}$ for $r \geq 0$ $\theta \in [0, 2\pi)$ a region $U \subset \mathbb{C}$ is a connected open subset since \mathbb{C} is locally path connected

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ma3b8 complex analysis warwick Oct 22 2022 web unlike real analysis complex differentiable functions have a large number of amazing properties and are very rigid objects some of these properties have been explored already in second year core our goal will be to push the theory

further hopefully revealing a very beautiful classical subject

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complex analysis art of problem solving Mar 23 2020 web complex analysis complex analysis is the calculus of complex numbers one might think that the calculus of complex numbers would be quite similar to the calculus of real numbers but amazingly this turns out to be not the case there are many pathological functions of a real variable that cannot occur in complex variables

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