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14 Chapter 1. Complex Numbers 2. Verify that $p \geq |z|$ $|Re z| + |Im z|$. Hint: Reduce this inequality to $(x - y)^2 \geq 0$: Solution. Note that $0 \leq (|Re z| + |Im z|)^2 = |Re z|^2 + 2|Re z||Im z| + |Im z|^2$: Thus $2|Re z||Im z| \leq |Re z|^2 + |Im z|^2$; and then

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Analysis}, author={Rami Shakarchi and Serge Lang}, year={1999} }

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This solutions manual offers a large number of worked out exercises of varying difficulty. I thank Serge Lang for teaching me complex analysis with so much enthusiasm and passion, and for giving me the opportunity to work on this answer book. Without his patience and help, this project would be far from complete.

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This text constitutes a collection of problems for using as an additional learning resource

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1.1 1991 November 21 1 REAL ANALYSIS Let $n > 0$ be such that $Z \times \mathbb{N}^n \setminus \{j\} \subset \mathbb{R}^n$: Define $E = (2n) \setminus \{1\}$, and suppose $E \subset [0;1]$ is a measurable set with $m(E) < \frac{1}{2}$. We must show $\int_{\mathbb{R}^n} f(x) dx < \frac{1}{2} \int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} (X \setminus \mathbb{N}^n) \setminus E \setminus \{j\} dx +$

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Problems and Solutions

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Simplify the radical, using the equivalence for i , and the complex solutions are. The real root is 2, and the imaginary roots are $5i$ and $-5i$. Find all the roots, real and imaginary, of the equation $5x^2 - 8x + 5 = 0$.

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