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Chapter 1. Preliminaries to Complex Analysis 1 1 Complex numbers and the complex plane 1 1.1 Basic properties 1 1.2 Convergence 5 1.3 Sets in the complex plane 5 2 Functions on the complex plane 8 2.1 Continuous functions 8 2.2 Holomorphic functions 8 2.3 Power series 14 3 Integration along curves 18 4 Exercises 24 Chapter 2. Cauchy's Theorem ...

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Solution: (a) When  $z = 1 + 6i = z^2$ , this is the line that perpendicularly bisects the line segment from  $z = 1$  to  $z = 2$ . When  $z = 1 + 2i$ , this is the entire complex plane. (b)  $1 + z = z^2$   $z^2 - z - 1 = 0$   $z = \frac{1 \pm \sqrt{5}}{2}$  (1.1) So  $1 + z = z^2$   $|z|^2 = z \bar{z} = 1$ . (1.2) This is the unit circle in  $\mathbb{C}$ . (c) This is the vertical line  $x = 3$ .

### Math 372: Solutions to Homework - Williams College

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### Full text of "Stein and Shakarchi" - Internet Archive

That fall Stein taught the course in complex analysis while he and Shakarchi worked on the corresponding manuscript. Paul Hagelstein, then a postdoctoral scholar in the Princeton math department, was a teaching assistant for this course. In spring 2001, when Stein moved on to the real analysis course, Hagelstein started the sequence anew, beginning with the Fourier analysis course. Hagelstein ...

### Princeton Lectures in Analysis - Wikipedia

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### Stein Complex Analysis Solutions - MyCourses

Required: E. Stein and R. Shakarchi. Complex analysis. Princeton Lectures in Analysis II. Princeton Univ. Press. ... Solutions are posted on Mycourses. There will be a three hour final exam. It will be held on December 9, 14:00-17:00, in Burnside 1205. Grading: Your final mark will be the largest of the following: [20% Assignments + 30% Midterm + 50% Final]; OR [20% Assignments + 80% Final] ...

### MATH 366, Honours Complex Analysis, Fall 2014

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