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THE EXERCISES FROM
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3 Solution 3. $z^n = s e^{i\varphi}$
implies that $z = s^{1/n} e^{i(\varphi + 2\pi k)/n}$, where $k = 0, 1, \dots, n-1$ and $s^{1/n}$ is the real n th root of the positive number s .

There are n solutions as there should be since we are finding the roots of a degree n polynomial in the algebraically closed field \mathbb{C} .

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0-387-98592-1. The problems in the first 8 chapters are suitable for an introductory course at undergraduate level and cover power series, Cauchy's theorem, Laurent series, singularities and meromorphic functions, the calculus of residues, conformal mappings, and harmonic functions.

Problems and

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Chapter 1.

Preliminaries to

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Complex numbers and
the complex plane 1

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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

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Integration along
curves 18 4 Exercises

24 Chapter 2.

**Complex Analysis
(Princeton Lectures
in Analysis, Volume
II)**

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Chapter 1 Exercise 1.

(a) We could write this
out in real and

imaginary parts, but

it's easier just to think

about what this means:

it is the set of points z

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in C such that z is equidistant from z_1 and z_2 . If the points z_1 and z_2 are equal, then this condition is vacuous and z may be anything (so we get all of C).

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3 Solution 3. $z^n = s$

implies that $z = s^{1/n} e^{i(\theta/n + 2\pi k/n)}$, where $k = 0, 1, \dots, n-1$ and $s^{1/n}$ is the real n th root of the positive number s .

$z = s^{1/n} e^{i(\theta/n + 2\pi k/n)}$, where $k = 0, 1, \dots, n-1$ and $s^{1/n}$ is the real n th root of the positive number s .

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$z^n = s e^{i\varphi}$ implies that

$z = s^{1/n} e^{i(\varphi + 2\pi k)}$,

where $k = 0, 1, \dots, n-1$

and $s^{1/n}$ is the real n th

root of the positive

number s There are

n solutions as there

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nice to include the
statement of the
problems, but I leave
that up to you. I am
only skimming the
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occasionally add some comments or mention alternate solutions. If

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Solution: (a) When $z_1 \neq z_2$, this is the line that perpendicularly bisects the line segment from z_1 to z_2 .

When $z_1 = z_2$, this is the entire complex plane. (b) $1/z = z \iff z^2 = 1$.

$|z|^2 = z \bar{z} = 1 \iff |z| = 1$.

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(1.2) This is the unit circle in \mathbb{C} . (c) This is the vertical line $x=3$.

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Problem 4 (3.2 in Stein-Shakarchi) Integrate over the upper semicircular contour; the integral over the semicircular part is 0 since the degree of the

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denominator is greater than 2. Therefore the desired integral is just the sum of all residues that lie in the upper semicircular contour. The poles are the 4-th

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The vibrating string 2
1.1 Derivation of the
wave equation 6 1.2

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