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Homework VI Due Friday June 1 1.

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Conway, chapter 5, section 1, problem 1  
b,h,i,j. Determine the nature of the  
isolated singularity at  $z = 0$  of the  
following functions. If the function has a  
pole, find the singular part, for an  
essential singularity find the image of a  
small annulus. (b)  $f(z) = \cos z z$

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**Homework VI**  
Complex Analysis Spring 2001  
Homework V Solutions 1. Conway,  
chapter 4, section 5, problem 7. Let  $\gamma(t) = 1 + e^{it}$  for  $0 \leq t \leq 2\pi$ . Find  $\int_{\gamma} (z-1)^{-n} dz$  for all positive integers  $n$ . By  
Corollary 5.8, this is  $2\pi i (n-1)!$  times the  
 $(n-1)$ st derivative of  $f(z) = z^n$  evaluated  
at  $z = 1$ . The  $(n-1)$ st derivative of  $z^n$  is

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n!z and so the result is  $2n\pi$ .

**Complex Analysis Spring 2001  
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Homework II Solutions 1. With  $\pi$  2  
defined to be the least positive zero of  
cost, we established in class Wednesday  
that  $t \rightarrow e^{it}$  was onto the first quadrant



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of the unit circle in  $\mathbb{C}$ . Use proven properties of the complex exponential to prove that  $\cos(\pi - t) = -\cos t$ ,  $\cos(\pi + t) = -\cos t$ ,

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Complex Analysis Spring 2001  
Homework III Solutions 1. Conway,

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chapter 3, section 3, problem 8 If  $Tz = az + b cz + d$  show that  $T(\mathbb{R} \cup \infty) = \mathbb{R} \cup \infty$  if and only if  $a, b, c, d$  can be chosen to be real numbers. It is clear that if  $a, b, c, d$  are real, then  $T$  maps the extended real axis to the extended real axis.

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Homework VII Due Friday June 8 1.

Conway, chapter 5, section 1, problem 1

b,d. 2. Conway, Chapter 5, section 2,

problem 2 d,g. 3. Conway, chapter 5,

section 2, problem 6. 4. Conway, chapter

5, section 2, problem 13. 5. Compute  $Z$

$\int_0^{\infty} \frac{x^2}{1+x^2} dx$  using the residue

calculus. (You may optionally use a

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change of variable first.) 6. Show that

### **Complex Analysis Spring 2001 Homework VII**

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Conway, chapter 5, section 1, problem 1

b,h,i,j. Determine the nature of the

isolated singularity at  $z = 0$  of the

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following functions. If the function has a pole, find the singular part, for an essential singularity find the image of a small annulus.

### **hw6sol - Complex Analysis Spring 2001 Homework VI Due ...**

Complex Analysis Spring 2001

Homework IV Solutions 1. Conway,

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chapter 4, section 2, problem 10.

Conway, chapter 4, section 2, problem

10. Evaluate  $\int_{\gamma} \frac{z^2 + 1}{z(z^2 + 4)} dz$

where  $\gamma(t) = re^{it}$  for  $t \in [0, 2\pi]$  for

all possible values of  $r$ ,  $0 < r < 2$  and  $2$

$< r < \infty$ .

**hw4sol - Complex Analysis Spring  
2001 Homework IV ...**

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## Homework III Solutions Complex Analysis Spring 2001

Homework V Solutions 1. Conway, chapter 4, section 5, problem 7. Let  $\gamma(t) = 1 + e^{it}$  for  $0 \leq t \leq 2\pi$ . Find  $\int_{\gamma} (z-1)^{-n} dz$  for all positive integers  $n$ . By Corollary 5.8, this is  $2\pi i (n-1)!$  times the  $(n-1)$ st derivative of  $f(z) = z^{-n}$  evaluated at  $z = 1$ . The  $(n-1)$ st derivative of  $z^{-n}$  is  $n! z^{-n}$  and so the result is  $2\pi i$ .

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## **hw5sol - Complex Analysis Spring 2001 Homework V Solutions ...**

Instructor: Prof. J. H. Shapiro Office:  
D304 Wells Hall, Phone: 3-3831 Office  
Hours: MWF 11:30--12:20, and by  
appointment. email:

shapiro@math.msu.edu. Text: D.  
Sarason, Notes on Complex Function



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Theory (required). Prerequisites: You need a good working knowledge of undergraduate-level real analysis, in particular limits and continuity. You must know how to do "delta-epsilon" proofs, and be ...

## **Math 829 Complex Analysis I Spring 2001**

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Mathematics 6321 Complex Analysis  
Spring, 2005 Current reading and  
homework assignments Due Monday, 2  
May There will be a final exam on this  
date Reading. S-S, Chapter 8, Appendix  
A, 1-3. ... Distinguish among real roots  
and complex roots, and between the  
cases  $a > 1$  and  $a < 1$ . Hint: Consider a large  
square bounded by  $N$  ...

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## **Math 6321 - Complex Analysis**

View Notes - hw3 from MATH 520 at  
University of Southern California.

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Homework III Due Friday May 4 1.

Conway, chapter 3, section 3, problem 8

2. Conway, chapter 3,

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**hw3 - Complex Analysis Spring 2001  
Homework III Due Friday ...**

View Notes - hw5 from MATH 520 at  
University of Southern California.

Complex Analysis Spring 2001

Homework V Due Friday May 26 1.

Conway, chapter 4, section 5, problem 7.

2. Conway, chapter 4,

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**hw5 - Complex Analysis Spring 2001  
Homework V Due Friday ...**

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quite lesson, amusement, as capably as  
harmony can be gotten by just checking  
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college homework help and online tutoring centers are standing by 24/7, ready to assist college students who need homework help with all aspects of complex analysis.

### **Complex Analysis - College Homework Help and Online Tutoring**

W. Schlag, A Course in Complex Analysis

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and Riemann Surfaces, AMS, 2014. A clear and useful recent text that does what the title says. R. Narasimhan and Y. Nievergelt, Complex Analysis in One Variable, 2nd Ed., Birkhauser, 2001. A concise, rigorous, and elegant presentation of the complex analysis needed for Riemann surfaces and several complex ...



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## **Math 205B: Complex Analysis (Spring, 2018)**

MATH 120B: Complex Analysis, Winter  
quarter 2002: Click below for homework  
assignments and other information:

Math 120B: Complex Analysis MATH 20F:  
Linear Algebra, Spring quarter 2001:  
Click below for homework assignments

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and other information: Math 20F: Linear  
Algebra Partial Differential Equations  
Math 110, Spring quarter 2001: Math  
110: PDE

### **MATH 20E: Vector Calculus, Winter ... - UCSD Mathematics**

Most Complex Analysis homework  
assignments will consist of fast-paced

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learning that can be difficult to follow, and do not include clear instructions for application. Complex Analysis homework include. Complex functions (functions, where the independent variable and the dependent variable are both complex numbers);

### **Complex Analysis Homework Help -**

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**HomeworkEngine**

This course is a systematic introduction to complex analysis, with a special emphasis on applications of residues and geometric principles. Textbook: James W. Brown and Ruel V. Churchill, Complex Variables and Applications, 8-th Edition, 2009. ISBN 0-07-305194-9. Grading: 1. Homework problems

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(generally, one assignment a week) 60%  
2.

### **Spring 2011 - Mathematics Department | CoAS**

Introduction to Complex Analysis (Spring  
2016) M 472. Introduction to Complex  
Analysis (Spring 2016) INSTRUCTOR:  
Mark Pernarowski : OFFICE HOURS:

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Schedule : TEXTBOOK: Complex Variables and Applications, 9th ed., Churchill, Brown ... HOMEWORK: Below the Homework and due dates will be posted.

**M472 Complex Variables - Mark Pernarowski | Montana State ...**  
Spring-2015. Math H185 (ccn 54251):

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Honors Introduction to Complex Analysis  
Instructor: Alexander Givental Lectures:  
TuTh 9:30 - 11:00, room: 9 Evans Office  
hours: Wed 1:00-3:00 p.m., in 701 Evans  
Textbook author: Henri Cartan, Textbook  
title: Elementary Theory of Functions of  
One and Several Complex Variables,  
Dover, ISBN 9780486685434 Syllabus:  
We will try to cover Chapters I,II, III, V,

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