BONUS QUIZ 11A

Complex Analysis

Nan	ne:
Dat Tim	e: Friday April 16 ae Begun: Ron Buckmire ae Ended:
Тор	pic: Cauchy Principal Value
	point of this bonus quiz is to provide you with another opportunity to demonstrate your ability to contour integration to another application.
\mathbf{Re}	ality Check:
EXP	ECTED SCORE :/10
Ins	tructions:
0.	Please look for a hint on this quiz posted to blackboard.oxy.edu
1.	Once you open the quiz, you have 30 minutes to complete, please record your start time and end time at the top of this sheet.
2.	You may use the book or any of your class notes. You must work alone.
3.	If you use your own paper, please staple it to the quiz before coming to class. If you don't have a stapler, buy one.
4.	After completing the quiz, sign the pledge below stating on your honor that you have adhered to these rules.
5.	Your solutions must have enough details such that an impartial observer can read your work and determine HOW you came up with your solution.
6.	Relax and enjoy
7.	This quiz is due on Monday, April 19, in class. NO LATE QUIZZES WILL BE ACCEPTED.
Pled	ge: I,, pledge my honor as a human being and Occidental student,

that I have followed all the rules above to the letter and in spirit.

1. 10 points. Math 312 Spring 1998 Final Exam, Question 7. Find the Cauchy Principal Value of $\int_0^\infty \frac{dx}{(x^2+c^2)^2}$ (where c>0 and Real) by evaluating a contour integral.