Quiz 9	Complex Analysis
Name:	
Date: Time Begun: Time Ended:	
${f Topic}$: The Generalized Cauchy Integ	ral Formula
The point of this quiz is to give you an opportu Integral Formula to various contour integrals.	unity to illustrate your application of the Generalized Cauchy
Reality Check: EXPECTED SCORE:/10	ACTUAL SCORE :/10
Instructions:	
0. Please look for a hint on this quiz po	sted to blackboard.oxy.edu
1. Once you open the quiz, you have 30 end time at the top of this sheet.	minutes to complete, please record your start time and
2. You may use the book or any of your	class notes. You must work alone.
3. If you use your own paper, please stahave a stapler, buy one.	aple it to the quiz before coming to class. If you don't
4. After completing the quiz, sign the ploto these rules.	edge below stating on your honor that you have adhered
5. Your solutions must have enough det and determine HOW you came up wi	ails such that an impartial observer can read your work th your solution.
6. Relax and enjoy	
7. This quiz is due on Monday, A CEPTED.	pril 5, in class. NO LATE QUIZZES WILL BE AC-
Pledge: I,, plo	edge my honor as a human being and Occidental student,

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

- 1. Consider the contour integral $\oint_C \frac{3z+1}{z(z-2)^2} dz$ and evaluate it for the various contours.
- (a) (3 points.) C is the contour |z| = 1 traversed **twice** clockwise.

(b) (3 points.) C is the contour |z| = 3 traversed once counter-clockwise.

(c) (4 points.) C is the contour shaped like the symbol ∞ intersecting the x-axis at the points z=-1, z=1 and z=3 and where the right segment is traversed once counter-clockwise and the left segment is traversed once clockwise.