BONUS Quiz ${f 9}$

Multivariable Calculus

Name:			
Date: Time Begun: Time Ended:		Wednesday April 12 Ron Buckmir	
Topic: Changing Order	of Integration of a T	riple Integral	
The idea behind this quiz is to multiple integral in every possil	= -	opportunity to illustrate your ability to evalua	ate a
Reality Check:			
EXPECTED SCORE :	/10	ACTUAL SCORE :/1	L O
Instructions:			
0. Please look for a hint of	n this quiz posted to	faculty.oxy.edu/ron/math/212/06/.	
1. Once you open the quiz start time and end time	. •	cime as you like to complete it, please record; heet.	your
2. You may use the book	or any of your class i	notes. You must work alone.	
<u> </u>		to the quiz before coming to class. If you dose sheets will not be graded.	lon't
4. After completing the que to these rules.	iz, sign the pledge be	elow stating on your honor that you have adh	ered
5. Your solutions must have and determine HOW yo	0	ch that an impartial observer can read your vr solution.	work
6. Relax and enjoy			
7. This quiz is due on CEPTED.	Monday April 17	, in class. NO LATE QUIZZES WILL BE	AC-
Pledge: I, that I have followed all the re		y honor as a human being and Occidental stud ter and in spirit.	lent,

- 1. Consider the iterated integral for $V = \int_{-1}^{1} \int_{y^2}^{1} \int_{0}^{1-x} dz \ dx \ dy$
- (a) Write down the 5 other possible iterated integrals which represent the exact same value V (HINT: Sketch 2-D slices of the volume that is being integrated; first holding x constant, then y constant, and then z constant. This will help you decide on the limits of integration.)

(b) Evaluate any of your equivalent iterated integrals to obtain V.