Wath 120 Oping 2000		DASIC CALCULUS 2	
Quiz 4		DUE: FRI. F	EB. 28
Name:		<u></u>	
Date: Time Begun: Time Ended:		Wednesday February 26 Ron Buckmire	
Topic covered: Fund	damental The	orem of Calcululus Part 3	
The point of this quiz is for you t Fundamental Theorem of Calculus ca	·	derstanding of initial value problems ar olutions of IVPs	nd how the
Reality Check:			
EXPECTED SCORE :	/10	ACTUAL SCORE :	/10
Instructions:			
1. Once you open the quiz, you should check Blackboard.oxy		to complete it. Before you open the	e quiz you
2. You may not use the book must work alone.	or any of your cla	ass notes, but you may use a calcul-	ator. You
3. If you use extra paper, pleas a stapler, buy one.	se staple it to the	quiz before coming to class. If you c	lon't have
		w stating on your honor that you have ive yourself a sense of how well you	
5. Relax and enjoy			
6. This quiz is due on Frida WILL BE ACCEPTED.	y, February 28, ϵ	at the beginning of class. NO LATE	QUIZZES

Pledge: 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.

SHOW ALL YOUR WORK

(a) (1 point) Write down the derivative of the function sin(sin(x)).

(b) (3 points) Write down the accumulation function, y(x), which is the IMPLICIT FORM of the solution of the initial value problem

$$y' = \cos(\sin(x))\cos(x), \qquad y(0) = 3$$

(c) (6 points) Use your answers from (a) and (b) to write down the solution of the intial value problem in (b) as an EXPLICIT FUNCTION y(x) which does not have an integral sign in it. You should check that your final expression for y(x) complete satisfies the initial value problem.