## $Math\ 120\ Spring\ 98$

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	Name:
r	Topic covered: Using the Fundamental Theorem Of Calculus
	The point of this quiz is to give you an opportunity to use the fundamental theorem of calculus to solve itial value problem.
]	Instructions:
1	Once you open the quiz, you have 60 minutes to complete it.
2	You may use the book or any of your class notes, and you may use a calculator. You must work alone.
	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.
3	
	After completing the quiz, sign the pledge below stating on your honor that you have adhered to these rules.
4	

1. Write down the accumulation function, y(x), which is the solution of the initial value problem below,

$$y' = \sqrt{x}, \qquad y(1) = 0$$

2. Write down an antiderivative for  $\sqrt{x}$ .

3. Use your answers from (1) and (2) to write down the solution of the equation in (1) as an EXPLICIT FUNCTION y(x) which does not have an integral sign in it. You should check that your expression for y(x) complete satisfies the initial value problem given in (1).