Quiz

Directions: Carefully read each question below and answer to the best of your ability in the space provided. You **MUST** show your work to receive full credit!

1. (5 points) Use the fundamental theorem of calculus to find F'(x) for

$$F(x) = \int_0^{x^2 - 3x + 1} \sqrt{5t - 4} \ dt$$

2. (5 points) Recall that the average value of a function f(x) on [a, b] is

$$f_{\text{avg}} = \frac{\int_{a}^{b} f(x) \, dx}{b - a}.$$

Suppose that the average value of f(x) on [4, 26] is 5. Find the value of $\int_4^{26} f(x) dx$.

Name:				
Section (circle one):	021	022	023	024

Question:	1	2	Total
Points:	5	5	10
Score:			

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