Math 122 (Section 4)  
Quiz 10  
April 19, 2002

Name ______________________________

[No calculators are allowed on this quiz!]

1. (2 points) Find any antiderivative for $8x^3 + 3x^2$.

2. (1 point) Find an antiderivative for $8x^3 + 3x^2$ such that the graph of the antiderivative goes through the point (1, 8).

3. (3 points) Evaluate the following indefinite integral.

$$\int \left( e^{2x} + \sqrt{x} - \frac{2}{3x} \right) \, dx$$
4. (4 points) Evaluate the following definite integral. Simplify your answer as much as possible.

\[ \int_{4}^{9} \left( \frac{1}{\sqrt{x}} - 3 \right) \, dx \]