

Math 221 Fall 2009

11/17/2009

Quiz #12

Name: _____

Show all work clearly and in order. Please box your answers. 10 minutes.
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(PRACTICE PROBLEM) Find the most general antiderivative of the function $f(\theta) = 5 + \frac{1}{\theta^2}$.

- 3 1. Write $\int_0^3 \sin(\sqrt{x}) dx$ as a limit of Riemann sums taking the sample points to be the right endpoints on the subintervals. **DO NOT EVALUATE THE LIMIT**

- 4 2. Evaluate $\int_0^2 3x dx$ as a limit of Riemann sums taking the sample points to be the right endpoints on the subintervals.