MATH 222(1,2,4) Fall 2015 Quiz 4 RM

Name: _____

You will have twenty minutes to take this quiz. Read the instructions carefully. There are more questions on the back of this page.

- 1. (4 points) You do not need to show your work. Only the answer will be graded.
 - 1. (2 points) Find a value of a so that for all x < a with x > 2

$$\frac{1}{\sqrt{x-2}} < \frac{1}{x-2}.$$

2. (2 *points*) True or false: for all x > 0

$$\frac{\sqrt{1+x}}{x} > \frac{1}{\sqrt{x}}.$$

2. (6 points) Show your work. Partial credit may be awarded. Compute $\int \frac{e^{4x}}{\sqrt{1+e^{8x}}} dx.$