

Name: _____

MATH 2300 - Quiz 7

Instructions: You may not use your calculator, book, or notes. You may not work with anyone else on the quiz. You are encouraged to ask me a question if you are confused about something.

1. Consider the region bounded by $y = e^x$, the x-axis, and the lines $x = 0$ and $x = 1$. Set up an integral which represents the volume of the solid whose base is given by the above region, and whose cross sections are squares perpendicular to the x-axis.

2. Consider the region bounded by $y = x$ and $y = \sqrt{x}$. Set up an integral which represents the volume of the solid which is the obtained by revolving the above region around the x-axis.