Quiz 3

Math 102, Term 171

NAME:

ID:

Problem 1. Using the method of cylindrical shells, find the volume of the solid obtained by rotating the region enclosed by $y = \ln x$, y = 0, and x = e around y = -1.

Problem 2. Find the average value of $f(x) = x^2 \tan^{-1} x$ on [0, 1].