Quiz 3
Math 102, Term 172

NAME:
ID:

Problem 1. Find the average value of $f(x) = x^2 \sin^2 x$ on $[0, \pi^2]$.

Problem 2. Find the volume of the solid obtained by rotating the region enclosed by $y = \tan^{-1} x$, $0 \le x \le 1$ around the y-axis.