

Quiz 3

Math 102, Term 172

NAME:

ID:

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

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