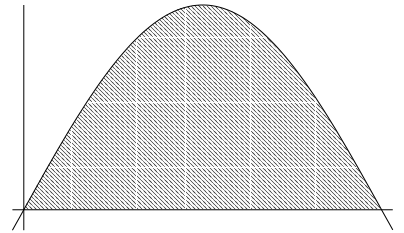


Quiz #4

Quiz Section: _____

SHOW YOUR WORK

1. (5 points) Find the volume of the solid formed by rotating the region bounded by the x -axis and the first hump of the curve $y = \sin(x)$ about the y -axis.



2. (5 points) Compute the average value of the function $f(x) = \cos^4(x)$ on the interval $0 \leq x \leq \pi$.