

Name.....

UID.....

Math 1210-2

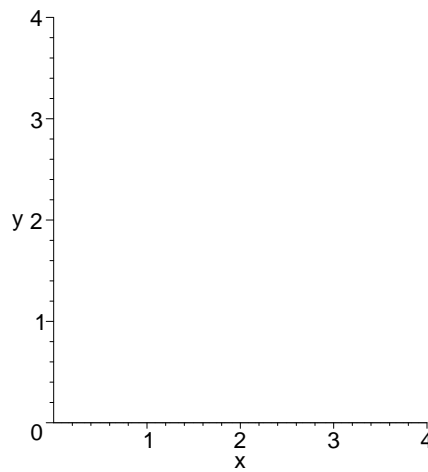
Quiz 9

November 30, 2007

Show all work for complete credit!

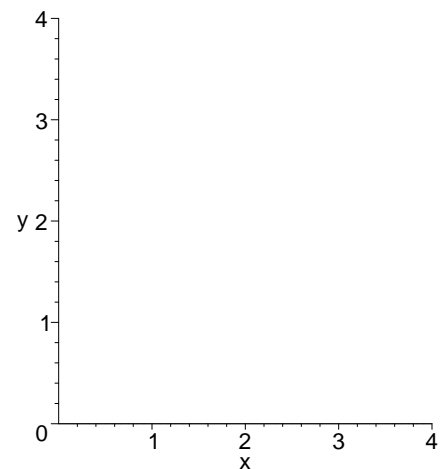
1a) Sketch the region in the first quadrant bounded between the x-axis, the vertical line $x=2$, and the graph $y=x^2$.

(2 points)



1b) Consider the object created by rotating the region in (1a) about the y-axis. Compute its volume using planar slabs (which are washers in this case). The coordinate axes are provided in case you want to draw pictures.

(4 points)



- 1c) Recompute the the volume in part (1b), but using cylindrical shells rather than planar slabs. (4 points)

