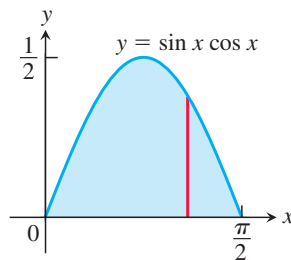


Show all work and circle/box your final answer. All answers must be simplified unless stated otherwise. If you finish early, you may leave with my approval.

1. (*0 points*) Find the volume of the solid that lies between planes perpendicular to the x -axis at $x = -1$ and $x = 1$. The cross-sections perpendicular to the x -axis between these planes are squares whose bases run from the semicircle $y = -\sqrt{1 - x^2}$ to the semi circle $y = \sqrt{1 - x^2}$.

2. (*0 points*) Find the volume of the solid found by revolving the area bounded by $y = \sin x \cos x$ from $x = 0$ to $x = \pi/2$ about the x -axis.



3. (0 points) Find the volume of the solid generated by revolving the shaded region about the x -axis.

