

To insure proper credit, please draw the region and the strips and identify all variables like R , h , dx , dy

1. Consider the region bounded by the curves $y = 4 - x^2$ and $3x + y = 0$
 - (a) Find the area by horizontal strips only.
 - (b) Find the area by vertical strips only.

2. Consider the solid generated by revolving about the Y axis the region bounded by the graphs of $y = x$, $y = 0$, and $x = 2$ is described by
 - (a) Find the volume by horizontal strips only.
 - (b) Find the volume by vertical strips only.

3. The volume of the solid generated by revolving about the Y axis the region bounded by the graphs of $y = x^3$, $x = 2$, and the x -axis.

4. The volume of the solid generated by revolving about the X axis the region bounded by the graphs of $y = \sqrt{x}$, $x = 0$, and $y = 2$.