

MA41G Volumes #4

Find the volume of the solid generated when the region between the graphs of the equations are revolved about the y-axis.

1.) $y = \sqrt{x}$, $x = 1$ and the x-axis

2.) $y = x^3$, $x = 1$ and $y = 0$

3.) $y = \frac{1}{x}$, $y = 0$, $x = 1$ and $x = 3$

4.) $y = x^2$, $y = 4$ and $x = 0$

5.) $y = 4 - x^2$ and $y = 0$

