

MA41G Volumes #2

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

1.) $f(x) = \frac{1}{2} + x^2$ and $g(x) = x$ over the interval $[0,2]$

2.) $y = x^2 + 1$ and $y = x + 3$

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

4.) $y = -\sqrt{x}$, $y = -2$ and $x = 0$

5.) $y = \sqrt{25 - x^2}$ and $y = 3$

6.) $y^2 = 4x$ and $y = x$