MA41G Volumes #3

1.) Find the volume of the solid generated when the region enclosed by $y = \sqrt{x}$, $y = 2$ and $x = 0$ is revolved about the *y*-axis.

2.) $y = 3 - 2x$ over the interval $[0,2]$

3.) $y = \frac{1}{x}$, $x = 2$ and $y = 2$

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