## MATH 65B - Spring 2018

Groupwork 5: February 20, 2018

1. Find the volume of the region rotated around the line $x=1$, and bounded by $x=y^{2}$ and $x=1$.
2. Find the volume of the region rotated around the $y$-axis, and bounded by $y=x$ and $y=\sqrt{x}$.

Please, show all work.
3. Find the volume of the region rotated around the line $x=-1$, and bounded by $x=y^{2}$ and $y=x^{2}$.
4. Find the volume of the region rotated around the line $y$-axis, and bounded by $y=4(x-2)^{2}$ and $y=x^{2}-4 x+7$.

