Write an integral that gives the volume of the following solids of revolution.

1. The region bounded by $y = x^3$ and $y = 8$ rotated around the $y$-axis.

2. The region bounded by $y = x$ and $y = x^2$ rotated around the $x$-axis.

3. The region bounded by $y = x$ and $y = x^2$ rotated around the line $y = -1$.

4. The region bounded by $y = x$ and $y = x^2$ rotated around the $y$-axis.

5. The region bounded by $y = \sqrt{x}$ and $y = x^3$ rotated around the $x$-axis.