Exercise 1 (5 points)
Find the area of the surface of the solid obtained by rotating the curves $y = x^2$ from 0 to $\sqrt{2}$ about $y = axis$.

Exercise 2 (5 points)
Evaluate $\int \frac{dx}{\sqrt{x + x^2}}$. 
Exercise 1 (5 points)
Find the area of the surface of the solid obtained by rotating the curves $y = \sqrt{x}$ from 0 to 2 about $x$-axis.

Exercise 2 (5 points)
Evaluate $\int \frac{dx}{\sqrt{x^2 - x}}$. 