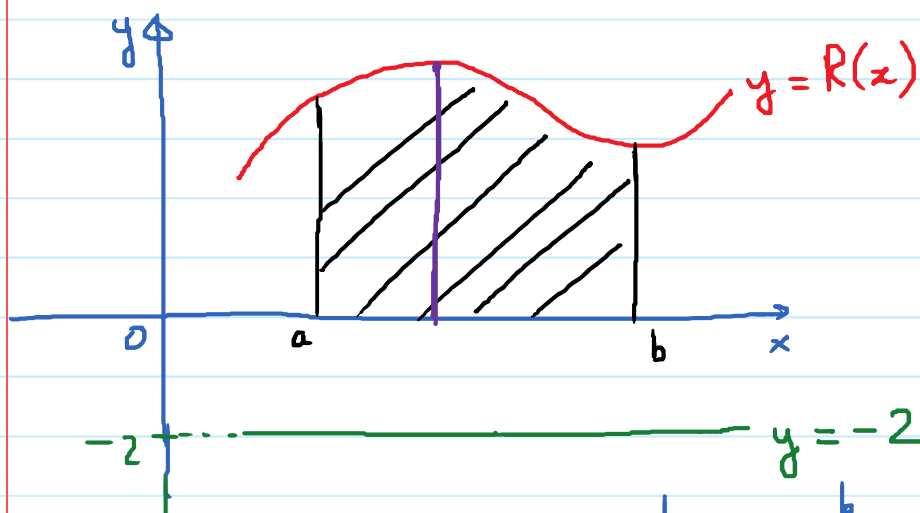


$$\begin{aligned}
 V &= \pi \cdot \int_0^1 (x^2 - x^6) dx \\
 &= \pi \cdot \left(\frac{x^3}{3} - \frac{x^7}{7} \right) \bigg|_0^1 \\
 &= \pi \cdot \left(\frac{1}{3} - \frac{1}{7} \right) = \boxed{\frac{\pi \cdot 4}{21}}.
 \end{aligned}$$

Axis of rotation is horizontal line or vertical line different from x-axis / y-axis.



outer radius = $R(x) + 2$ inner radius = 2

$$V = \pi \cdot \int_a^b \left((R(x) + 2)^2 - (2)^2 \right) dx$$