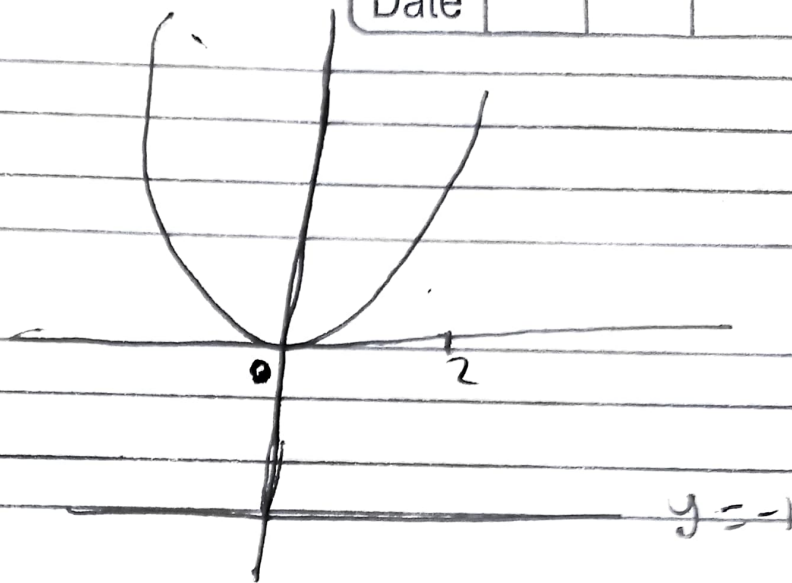


$$\text{Volume} = \int_{x=0}^2 \pi (x^2 - (-1))^2 dx$$



$$= \int_0^2 \pi (x^2 + 1)^2 dx$$

$$\Rightarrow \pi \int x^4 + 1 + 2x^2 dx = \pi \left[\frac{x^5}{5} + x + \frac{2x^3}{3} \right]_0^2$$

$$\Rightarrow \pi \left[\frac{32}{5} + 2 + \frac{16}{3} - 0 \right] = \pi \left[\frac{96 + 30 + 80}{15} \right]$$

$$\Rightarrow \boxed{\frac{206\pi}{15}} \text{ Ans}$$