

$$\begin{aligned}
 V &= \pi \cdot \int_0^4 (x^2+9)^2 dx = \pi \int_0^4 x^4 + 18x^2 + 81 = \\
 &= \pi \cdot \left(\frac{x^5}{5} + 6x^3 + 81x \right) \Big|_0^4 = \pi \cdot \left(\frac{4^5}{5} + 6 \cdot 4^3 + 81 \cdot 4 - 0 \right) = \\
 &= \pi \cdot \frac{4564}{5} = \pi \cdot 912,8
 \end{aligned}$$

