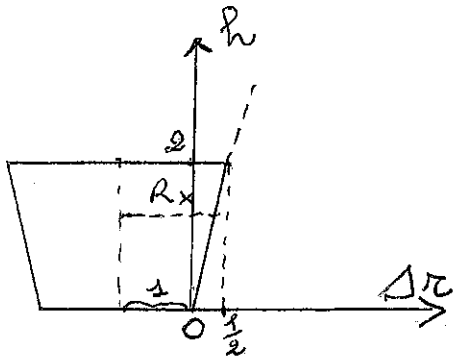


by Giovanni Colletis 5#



$$V_{\text{Acque}} = 9,17 \text{ dm}^3$$

$$r_b = 1$$

Eq retta " lato contenitore "

$$h = \frac{2}{\frac{1}{2}} \Delta r = 4 \Delta r = 4(R_x - 1)$$

$$V = \frac{\pi h}{3} [r_b^2 + r_b R_x + R_x^2]$$

$$= \frac{\pi \cdot 4 \Delta r}{3} (1 + R_x + R_x^2) = \frac{4}{3} \pi (R_x - 1) (1 + R_x + R_x^2) =$$

$$\frac{4}{3} \pi (R_x^3 - 1) \rightarrow \frac{3V}{4\pi} + 1 = R_x^3$$

$$R_x = \sqrt[3]{\frac{3V}{4\pi} + 1} \rightarrow h = 4 \left[\sqrt[3]{\frac{3V}{4\pi} + 1} - 1 \right] = 1,89 \text{ dm}$$