

FLPp194

1. $V = \pi \cdot 5^2 \cdot 11 = 275\pi \cong 863,94 \text{ cm}^3$

2. $V = \pi \cdot 1,5^2 \cdot 3 = 6,75\pi \cong 21,21 \text{ cm}^3$

3. $A_{\text{base}} = \frac{V}{h} = \frac{5\,000\,000}{500} = 10\,000 \text{ m}^2$

Côté du carré de base: $c = \sqrt{10\,000} = 100 \text{ m}$

4. $A_{\text{base}} = \frac{\text{volume}}{\text{longueur}} = \frac{3}{2} = 1,5 \text{ m}^2$

Rayon: $r = \sqrt{\frac{A_{\text{base}}}{\pi}} = \sqrt{\frac{1,5}{\pi}} \cong 0,69 \text{ m}$