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①  $V_w$

$$\begin{aligned} V &= a^3 \\ &= 8^3 \\ \underline{V} &= \underline{512 \text{ cm}^3} \end{aligned}$$

②  $V_{2gr}$

$$\begin{aligned} V_2 &= \frac{512}{2} \\ \underline{V_2} &= \underline{256 \text{ cm}^3} \end{aligned}$$

③  $r$

$$\begin{aligned} V_2 &= \pi \cdot r^2 \cdot h \\ 256 &= \pi \cdot r^2 \cdot 8 \\ \underline{r} &= \underline{\sqrt{\frac{256}{\pi \cdot 8}}} = \underline{3,19 \text{ cm}} \end{aligned}$$

④  $O_{gs}$

$$\begin{aligned} O_{gs} &= O_w - 2 \cdot A_o + M_2 \\ &= 6 \cdot 8^2 - 2 \cdot \pi \cdot 3,19^2 + 2 \pi \cdot 3,19 \cdot 8 \\ &= 384 - 63,94 + 160,35 \end{aligned}$$

$$\underline{O_{gs} = 480,41 \text{ cm}^2}$$