

$$2) \frac{2}{\sqrt[9]{128}} = ?$$

$$\begin{aligned} \frac{2}{\sqrt[9]{128}} &= \frac{2 \cdot \sqrt[9]{2^{9-7}}}{\sqrt[9]{2^7} \cdot \sqrt[9]{2^{9-7}}} = \frac{2 \cdot \sqrt[9]{2^2}}{\sqrt[9]{2^7} \cdot \sqrt[9]{2^2}} \\ &= \frac{2 \sqrt[9]{2^2}}{\sqrt[9]{2^9}} = \frac{2 \sqrt[9]{2^2}}{2} = \sqrt[9]{2^2} \\ &= \sqrt[5]{5} \end{aligned}$$

