

$$\log \sqrt[3]{x} - \log \sqrt[3]{4} = \frac{1}{3}$$

$$\log \frac{\sqrt[3]{x}}{\sqrt[3]{4}} = \frac{1}{3}$$

$$\log \sqrt[3]{\frac{x}{4}} = \frac{1}{3}$$

$$\log \left(\frac{x}{4}\right)^{1/3} = \frac{1}{3}$$

$$\frac{1}{3} \log \left(\frac{x}{4}\right) = \frac{1}{3}$$

$$\log \left(\frac{x}{4}\right) = 1 \quad \downarrow \frac{1}{3} : \frac{1}{3}$$

$$\log \frac{x}{4} = \log 10$$

$$\frac{x}{4} = 10$$

$$\boxed{x=40}$$