

1.42
2

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

$$x \sqrt[3]{\frac{x}{3}} = x \frac{x}{3}$$

$$\boxed{x=1}$$

$$\sqrt[3]{\frac{x}{3}} = \frac{x}{3} \quad / ()^3$$

$$\frac{x}{3} = \left(\frac{x}{3}\right)^3$$

$$\left(\frac{x}{3}\right) \left(1 - \left(\frac{x}{3}\right)^2\right) = 0$$

$$\cancel{x=0}$$

$$\downarrow$$

$$\boxed{x=3}$$