

Source:

1 | cube root

1.1 | approximation

$$(1+x)^{\frac{1}{3}} \rightarrow \frac{1}{3}(1+x)^{-\frac{2}{3}}$$

at $x = 0$ is

$$\frac{1}{3}(1+0)^{\dots} = \frac{1}{3}$$