

Exercise 258

For the following exercises, write the equation in equivalent logarithmic form.

$$\left(\frac{1}{3}\right)^3 = \frac{1}{27}$$

Solution

The base of the logarithm is $1/3$, the exponent is the logarithm, and the result is the argument.

$$\log_{\frac{1}{3}} \frac{1}{27} = 3$$