## Exercise 259

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

$$
\sqrt[3]{64}=4
$$

## Solution

Rewrite the given equation.

$$
64^{1 / 3}=4
$$

The base of the logarithm is 64 , the exponent is the logarithm, and the result is the argument.

$$
\log _{64} 4=\frac{1}{3}
$$

