Precalculus
Compute logarithm of a power of the base, base and argument have radicals and inverses

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Example

Compute as a rational number, without using calculator.

$$\log_{\frac{1}{\sqrt[3]{49}}} \sqrt{343}$$

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Compute as a rational number, without using calculator.

$$\log_{\frac{1}{\sqrt[3]{49}}} \sqrt{343} \;\; =$$