



Logarithms

Base is a Fraction or a Decimal

Worksheet 1

Answer each of the following questions, using the boxes provided.

Click on the link in the Header of this page, or scan the QR Code, to view the online notes, tutorial(s) and answers for this worksheet.

Exercise 1

Evaluate:

$$\log_{\frac{1}{2}}(4)$$

Exercise 2

Evaluate:

$$\log_{0.5}(8)$$



Exercise 3

Evaluate:

$$\log_{\frac{1}{3}}(9)$$

Exercise 4

Evaluate:

$$\log_{0.2}(125)$$

Exercise 5

Evaluate:

$$\log_{\frac{1}{4}}(64)$$



Exercise 6

Evaluate:

$$\log_{\frac{1}{5}}(625)$$

Exercise 7

Evaluate:

$$\log_4(64) + \log_{\frac{1}{3}}(27)$$

Exercise 8

Evaluate:

$$\log_5(125) - \log_{\frac{1}{4}}(16)$$



Exercise 9

Evaluate:

$$\log_{\frac{1}{7}}(49) + \log_{0.1}(1000) + 2$$

Exercise 10

Evaluate:

$$\log_{0.2}(25) + \log_{\frac{1}{4}}(256) + \log_2(512)$$