

Logarithm - Calculator

Sheet 1

Example: Find the value of $\log_2 5$ using calculator.

$$\log_2 5 = \frac{\log 5}{\log 2} \quad (\text{or}) \quad \frac{\ln 5}{\ln 2} \quad (\text{change of base rule})$$
$$= \mathbf{2.32}$$

Find the value of each logarithm using calculator. Round the answer to two decimal places.

1) $\log_5 7 =$

2) $\log_3 1.2 =$

3) $\log_4 12 =$

4) $\log_6 14 =$

5) $2 \log_9 2 =$

6) $\log_7 3 =$

Find the value of each logarithmic expression using calculator. Round the answer to two decimal places.

7) $\log_3 6 - \log_2 8$

8) $\log_6 11 + \log_4 5$

9) $\log_4 7 + \log_7 13$

10) $\log_4 9 \cdot \log_2 6$

11) $\log_8 14 - \log_3 6$

12) $\frac{\log_2 5}{\log_4 8}$

Logarithm - Calculator

Sheet 1

Example: Find the value of $\log_2 5$ using calculator.

$$\log_2 5 = \frac{\log 5}{\log 2} \quad (\text{or}) \quad \frac{\ln 5}{\ln 2} \quad (\text{change of base rule})$$
$$= \mathbf{2.32}$$

Find the value of each logarithm using calculator. Round the answer to two decimal places.

1) $\log_5 7 = \mathbf{1.21}$

2) $\log_3 1.2 = \mathbf{0.17}$

3) $\log_4 12 = \mathbf{1.79}$

4) $\log_6 14 = \mathbf{1.47}$

5) $2 \log_9 2 = \mathbf{0.63}$

6) $\log_7 3 = \mathbf{0.56}$

Find the value of each logarithmic expression using calculator. Round the answer to two decimal places.

7) $\log_3 6 - \log_2 8$

- 1.37

8) $\log_6 11 + \log_4 5$

2.5

9) $\log_4 7 + \log_7 13$

2.72

10) $\log_4 9 \cdot \log_2 6$

4.1

11) $\log_8 14 - \log_3 6$

- 0.36

12) $\frac{\log_2 5}{\log_4 8}$

1.55