

Simplifying Logarithms

Evaluate each of the following logarithms without the use of a calculator. Remember to write in exponential form to help if needed.

9) $\log_3 81 =$

10) $\log_4 \frac{1}{2} =$

11) $\log_{12} 144 =$

12) $\log_6 \frac{1}{36} =$

13) $\log_2 \frac{9}{4} =$

14) $\log_{125} 4 =$

15) $\log_5 -3 =$

16) $\log_6 4 =$

17) $\log_{64} \frac{1}{27} =$

18) $\log_{\frac{1}{16}} 32 =$

19) $\log_4 0 =$

20) $\log_{10} 1 =$

21) $\log_4 \frac{1}{8} =$

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

23) $\log_6 3 =$

24) $\log_6 6^{2x} =$

25) $\log_{36} \frac{1}{6} =$

26) $\log_{128} 2 =$

27) $\log_{\frac{1}{4}} 16 =$

28) $\log_x x^{2x} =$

29) $\ln e^{12} =$

30) $3^{2\ln 5} =$

31) $\ln 1 =$

32) $e^{3\ln 4x} =$

Logarithm Word Problems With Solutions

Mayur Datar



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