

Logarithm Study Guide

Rewrite in exponential form:

#1 $\log_3 x = 4$

$3^4 = x$

#2 $\log_3 8 = 3$

$3^3 = 8$

#3 $\log 100 = x$

$10^x = 100$

Rewrite in logarithmic form:

#4 $x^3 = 51$

$\log_x 51 = 3$

#5 $5^{x+3} = 18$

$\log_5 (18) = x+3$

#6 $x^m = p$

$\log_x p = m$

Evaluate:

#7 $4\log_2 (12 - 3) + 4$

$4[\log_2 (9)] + 4$

$4(2) + 4$

$\boxed{12}$

#8 $-8 + [\log_4 16]$

$-8 + (2)$

$\boxed{-6}$

Estimate the value of the following:

#9 $\log_2 11$

$2^1 = 2$

$2^2 = 4$

$2^3 = 8$

$2^4 = 16$

≈ 3.4

$\approx 3.4 [\log_2 11]$

#10 $\log_5 100$

$5^1 = 5$

$5^2 = 25$

$5^3 = 125$

≈ 2.7

$\approx 2.7 [\log_5 100]$

Solve:

#11 $5\log_3 (81) = 10x + 25$

$5(4) = 10x + 25$

$20 = 10x + 25$

-25

$\frac{-5}{10} = \frac{10x}{10}$

$\boxed{-\frac{1}{2} = x}$

#12 $-6 + \log_{12}(x - 5) = -6$

DR:

$x - 5 > 0$

$x > 5$

$-6 + \log_{12}(x - 5) = -6$

$+6$

$\log_{12}(x - 5) = 0$

$12^0 = x - 5$

$1 = x - 5$

$\boxed{6 = x}$

Algebra 2 Study Guide 2nd Semester

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