

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 $\log_2 11$

$$2^1 = 2$$

$$2^2 = 4$$

$$2^3 = 8$$

$$2^4 = 16$$

$$\approx 3.4$$

$$\approx 3.4 [\log_2 11]$$

#10 $\log_5 100$

$$5^1 = 5$$

$$5^2 = 25$$

$$5^3 = 125$$

$$\approx 2.7$$

$$\approx 2.7 [\log_5 100]$$

Solve:

#11 $5\log_5(81) = 10x + 25$

$$5(4) = 10x + 25$$

$$20 = 10x + 25$$

$$-25$$

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

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

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

DR:

$$x - 5 > 0$$

$$x > 5$$

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

$$+6$$

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

$$12^0 = x - 5$$

$$1 = x - 5$$

$$\boxed{6 = x}$$

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