

3.4 PROPERTIES OF LOGS

Name Key

Remember last week when we were learning about exponential functions? Can you recall the PROPERTIES OF EXPONENTS?

$$a^3 \cdot a^7 = a^{10}$$

$$\frac{a^{12}}{a^4} = a^8$$

$$(a^4)^3 = a^{12}$$

So, in general:

$$a^m \cdot a^n = a^{m+n} \quad \frac{a^m}{a^n} = a^{m-n} \quad (a^m)^n = a^{mn}$$

Because logarithms and exponents are so connected, it would make sense that logarithms have some properties that work like their exponential counterparts.

Proof of Product Property: Prove $\log_b(RS) = \log_b R + \log_b S$ (Hint: Let $x = \log_b R$ and $y = \log_b S$)

$$\begin{aligned} \log_b(RS) &= \log_b(b^x b^y) \\ &= \log_b(b^{x+y}) \\ &= x + y \\ &= \log_b R + \log_b S \quad \checkmark \end{aligned}$$

$$b^x = R \quad b^y = S$$

Recall: $\log_b b^x = x$
Ex: $\log_7 7^2 = 2$

Let b , R , and S be positive real numbers with $b \neq 1$, and c any real number.

PRODUCT PROPERTY

$\log_b RS = \log_b R + \log_b S$	EX: $\log_3 27 = \log_3 9 + \log_3 3$
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QUOTIENT PROPERTY

$\log_b \frac{R}{S} = \log_b R - \log_b S$	EX: $\ln \frac{x}{3} = \ln x - \ln 3$
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POWER PROPERTY (CLOG RULE)

$c \cdot \log_b R = \log_b R^c$	EX: $3 \log_5 5 = \log_5 5^3$
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David Baud



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