Properties of Logarithms base b	b	
---------------------------------	---	--

.....

Product to Sum: $log_b(AB) = log_b A + log_b B$

Quotient to Difference: $log_b\left(\frac{A}{B}\right) = log_b A - log_b B$

Exponent: $\log_b x^n = n \cdot \log_b x$

Identity: $log_b b = 1$