Logarithmic Reference Sheet

$$log_b x = y$$
 means $b^y = x$

$$log_b x + log_b y$$
 means $log_b (x^*y)$

$$log_b x - log_b y$$
 means $log_b(x/y)$

$$log_b x^y$$
 means $y*log_b(x)$

log_bx means log_x/log_b