

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Rewrite as Single Logarithm Using Product and Quotient Rule**

Problems

Work Space

$\log_a x + \log_a y - \log_a z$  Answer:	
$\log_s l^4 m^2 + \log_s n - \log_s lmn$  Answer:	
$\log_h \frac{x}{y} + \log_h \frac{y}{z} - \log_h \frac{z}{y}$  Answer:	
$\log_a ab + \log_a bc - \log_a ca$  Answer:	
$\log_s (m + n) + \log_s (l + m) - \log_s m$  Answer:	