

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: | |