

Condensing Logarithmic Expressions

Condense each expression to a single logarithm.

1) $\log_a m + \log_a n$ = _____

2) $3(3 \log_3 u - 2 \log_3 v)$ = _____

3) _____

4) _____

5) _____

6) _____

7) $\frac{1}{3} \log_2 s - \log_2 t$ = _____

8) $4(2 \log_{10} p + \log_{10} q)$ = _____

9) $\log_n 4 - \log_n z$ = _____

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