

Expanding and Condensing Logarithms

A) Expand each expression.

1) $\log_5 \sqrt[3]{8m^7}$ = _____

2) $\log_9 \left(\frac{4}{u}\right)^8$ = _____

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1) $\frac{1}{4}(8 \log_8 6 + \log_8 h)$ = _____

2) $49 \log_e r - (21 \log_e s + 63 \log_e t)$ = _____

3) $5 (\log_7 7 - \log_7 4)$ = _____

4) $(14 \log_4 u + 12 \log_4 v) - 2 \log_4 b$ = _____