

Condensing Logarithmic Expressions

Condense each expression to a single logarithm.

1) $7 \log_{10} p + 3 \log_{10} q$ = _____

2) $\frac{1}{2} (5 \log_2 x + \log_2 y)$ = _____

3) _____

4) _____

5) _____

6) _____

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7) $\frac{1}{3} (9 \log_a g + 8 \log_a h)$ = _____

8) $5(2 \log_5 c - \log_5 d)$ = _____

9) $\log_4 7 + \log_4 n$ = _____