

Single Logarithm and Expansion

Sheet 2

Expand each expression :

1) $\log_5 \sqrt[3]{uv^6}$ = _____

2) $6 \log_6 \left(\frac{x^3}{y} \right)$ = _____

3) $9 \log_e \left(\frac{c^5 b^2}{d} \right)$ _____

4) $\log_8 \left(\frac{f}{g^3 h^4} \right)$ _____

5) $\log_a \left(\frac{n}{3} \right)^6$ _____

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Rewrite each expression

6) $\frac{1}{2} (4 \log_2 3 + \dots)$ _____

7) $(8 \log_5 a + 12 \log_5 b)$ _____

8) $4 (\log_7 a - \log_7 b)$ = _____

9) $12 \log_2 s - (16 \log_2 u + 12 \log_2 v)$ = _____

10) $(\log_x l + \log_x m) - \log_x n$ = _____