

Pre-Calculus

KEY

Rewrite a logarithm expression into expanded form.

1. $3 \log a + 6 \log b + 4 \log c$

2. $5 \log a + \log b + 2 \log c$

3. $4 \log a + 2 \log b - 5 \log c$

4. $4 \log a - 8 \log b + 7 \log c$

5. $2 \log a - 3 \log b - 3 \log c$

6. $-7 \ln a - 6 \ln b + 4 \ln c$

7. $-7 \ln a - \ln b - 8 \ln c$

8. $-\ln a - 4 \ln b - 6 \ln c$

9. $7 \ln a - 5 \ln b + 3 \ln c - \ln d$

10. $-6 \ln a - 7 \ln b + 2 \ln c + 8 \ln d$