

(C2-3.4) Name:

Homework Questions 4 – Laws of Logarithms

Write as a log of a single number

1. $\log 4 + \log 7$

2. $\log 8 - \log 2$

3. $\log 3 + \log 5$

4. $\log 25 - \log 5$

5. $\log 4 + \log 3 + \log 2$

6. $\log 60 - \log 10 + \log 2$

7. $6\log 2$

8. $3\log 5$

9. $\frac{1}{2}\log 36$

10. $\frac{3}{4}\log 81$

11. $3\log 4 - 2\log 2$

12. $3\log 5 - \log 10 + 3\log 2$

Simplify the following by writing these as a single number

13. $\frac{3}{5}\log 32 - \frac{3}{4}\log 16$

14. $\frac{\log 36}{\log 6}$