

(C2-3.4a) Name:

Homework Questions 4 – Laws of Logarithms

Write as a log of a single number

1. $\log 4 + \log 7$

$\log 28$

2. $\log 8 - \log 2$

$\log 4$

3. $\log 3 + \log 5$

$\log 15$

4. $\log 25 - \log 5$

$\log 5$

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

$\log 24$

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

$\log 12$

7. $6\log 2$

$\log 64$

8. $3\log 5$

$\log 125$

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

$\log 6$

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

$\log 27$

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

$\log 16$

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

$\log 100$

Simplify the following by writing these as a single number

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

0

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

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