

(C2-3.6) Name:

Homework Questions 6 – Changing the Base of a Logarithm

Change the base of the following so that it is a logarithm in base 10 only, and then solve to 3sf

1. $\text{Log}_4 8$

2. $\text{Log}_3 25$

3. $\text{Log}_4 87$

4. $\text{Log}_6 7$

5. $\text{Log}_5 9$

6. $\text{Log}_9 11$

7. $\text{Log}_{12} 15$

8. $\text{Log}_7 4$

9. $\text{Log}_3 x + 5 \text{Log}_x 3 = 6$

10. $\text{Log}_4 x - 10 \text{Log}_x 4 = 3$