

Year 11 Logs & Exponentials Worksheet



1. Find the value of $\log_3 (9 \times 27 \times 81)$
2. Find the value of $\log_2 (32/4)$
3. If $8^{2x-4} = 4^{2x}$, then $x =$
4. $(x^2)^{10}$
5. $(\sqrt{3} + \sqrt{3})^2 = ?$
6. What is the integer n for which $16^n = 4^{12}$?
7. If n is an integer and 0.0050505×10^n is greater than 500, what is the least possible value of n ?
8. Evaluate $(0.4)^5 / (0.2)^5$