

# IB SL TEST - Logarithms and Exponents

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Paper 1 – No Calculator

Full marks are not necessarily awarded for a correct answer with no working. Answers must be supported by working and/or explanations. Where an answer is incorrect, some marks may be given for a correct method, provided this is shown by written working. You are therefore advised to show all working.

(1) Solve the equation  $\log_3 81 + \log_3 \frac{1}{9} + \log_3 3 = \log_3 x$ .

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(Total 4 marks)

(2) Write each of the following in its simplest form.

(a)  $e^{\ln x}$

(b)  $e^{(\ln x + \ln x)}$

(c)  $\ln(e^{x+x})^2$

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(Total 6 marks)

# Ib Mathematics Sl Logs And Exponents Paper

**Annelies Wilder-Smith**



## **Ib Mathematics SL Logs And Exponents Paper:**

## Whispering the Techniques of Language: An Emotional Journey through **Ib Mathematics Sl Logs And Exponents Paper**

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