

TUTORIALS ON INDICES, SURDS AND LOGARITHMS

EXERCISE I: INDICES

- Solve for x in the equation $6^{x+2} \times 2^{x-1} = \frac{8}{3}$.
- Solve for x in the following equations:
 - $3^{2x-1} + 26(3^{x-1}) - 43 = 0$
 - $4^x - 3(2^{x+1}) + 8 = 0$
 - $2^x - 3(\sqrt{2})^x - 4 = 0$
- Solve for x , in the equation $\frac{8^x - 2^x}{4^x - 2^x} = 17$.
- Solve for x in the following equations:
 - $2^{x+1} + 2^{x-3} = 17$
 - $2^{2x-5} - 3(2^{x-5}) + 1 = 0$
 - $16^x - 5(2^{2x-1}) + 1 = 0$
- Solve the system of simultaneous equations:
$$\begin{cases} 3^x \times 9^y = \frac{1}{3} \\ \frac{8^x}{2^{x+y}} = 8 \end{cases}$$
- Solve the inequality $3^{x^2-2x} > \frac{1}{9}$.
- If $a^x = b^y = (ab)^{xy}$ with $a, b > 1$ and $x, y \neq 0$, show that $x + y = 1$.
- Solve for x in the equation $\left(1 + \frac{1}{x}\right)^{x+1} = \left(1 + \frac{1}{7}\right)^7$.
- Solve for the two integers a and b that satisfy the equation $2^a - 2^b = 2016$.
- Find the value of t given that t^{7t} is 50% larger than t^{7t} , find the value of t .
- A certain breed of mouse was introduced onto a small island with an initial population of 320 mice, and scientists estimate that the mouse population is doubling every year.
 - Find a function N that models the number of mice after t years.
 - Estimate the mouse population after 8 years.

EXERCISE II: SURDS

- Show that if $c > 0$, then $(a + b\sqrt{c})(a - b\sqrt{c}) = a^2 - b^2c$.
- Simplify the expression $(\sqrt{3} - 1)^2(2\sqrt{3} + 1)$ leaving your answer in the form $a + b\sqrt{c}$ where a, b and c are real numbers.
- Simplify $\frac{1}{1 + \sqrt{3}} - \frac{\sqrt{3} - 3}{\sqrt{3} - 1}$ leaving your answer in the form $a + b\sqrt{c}$ where a, b and c are real numbers.
- Given that $x = \sqrt{2 + \sqrt{3}}$ and $y = \sqrt{2 - \sqrt{3}}$, show that:
 - $x^2 + y^2 = 4$
 - $xy = 1$
 - $\frac{x}{y} = 2 + \sqrt{3}$
- Show that $\left[\frac{\sqrt{2}}{2}(1 + \sqrt{3})\right]^2 = 2 + \sqrt{3}$.

Indices Surds And Logarithms Equation Mathematics Stack

Didier Musso



Indices Surds And Logarithms Equation Mathematics Stack:

Whispering the Techniques of Language: An Psychological Journey through **Indices Surds And Logarithms Equation Mathematics Stack**

In a digitally-driven world where displays reign great and instant communication drowns out the subtleties of language, the profound secrets and mental nuances hidden within words usually go unheard. Yet, located within the pages of **Indices Surds And Logarithms Equation Mathematics Stack** a interesting fictional treasure blinking with raw emotions, lies an exceptional quest waiting to be undertaken. Composed by a skilled wordsmith, this marvelous opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the very material of each word. Within the mental depths of the touching review, we shall embark upon a genuine exploration of the book is core subjects, dissect their fascinating writing style, and succumb to the powerful resonance it evokes serious within the recesses of readers hearts.

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