

TUTORIALS ON INDICES, SURDS AND LOGARITHMS

EXERCISE I: INDICES

1. Solve for x in the equation $6^{x+2} \times 2^{x-2} = \frac{8}{9}$.
2. Solve for x in the following equations:
 - a. $3^{2x-1} + 26(3^{x-1}) - 43 = 0$
 - b. $4^x - 3(2^{x+1}) + 8 = 0$
 - c. $2^x - 3(\sqrt{2})^x - 4 = 0$
3. Solve for x , in the equation $\frac{8^x - 2^x}{4^x - 2^x} = 17$.
4. Solve for x in the following equations:
 - a. $2^{x+1} + 2^{x-3} = 17$
 - b. $2^{2x-5} - 3(2^{x-5}) + 1 = 0$
 - c. $16^x - 5(2^{2x-1}) + 1 = 0$
5. Solve the system of simultaneous equations:
$$\begin{cases} 3^x \times 9^y = \frac{1}{3} \\ \frac{8^x}{2^{x+y}} = 8 \end{cases}$$
6. Solve the inequality $3^{x-2x} > \frac{1}{9}$.
7. If $a^x = b^y = (ab)^{xy}$ with $a, b > 1$ and $x, y \neq 0$, show that $x + y = 1$.
8. Solve for x in the equation $\left(1 + \frac{1}{x}\right)^{x+1} = \left(1 + \frac{1}{7}\right)^7$.
9. Solve for the two integers a and b that satisfy the equation $2^a - 2^b = 2016$.
10. Find the value of t given that t^{7t} is 50% larger than t^{7t} , find the value of t .
11. 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.
 - (a) Find a function N that models the number of mice after t years.
 - (b) Estimate the mouse population after 8 years.

EXERCISE II: SURDS

1. Show that if $c > 0$, then $(a + b\sqrt{c})(a - b\sqrt{c}) = a^2 - b^2c$.
2. 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.
3. 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.
4. Given that $x = \sqrt{2 + \sqrt{3}}$ and $y = \sqrt{2 - \sqrt{3}}$, show that:
 - a. $x^2 + y^2 = 4$
 - b. $xy = 1$
 - c. $\frac{x}{y} = 2 + \sqrt{3}$
5. Show that $\left[\frac{\sqrt{2}}{2}(1 + \sqrt{3})\right]^2 = 2 + \sqrt{3}$.

Indices Surds And Logarithms Equation Mathematics Stack

Ebenezer Erskine Scott



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