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TUTORIALS ON INDICES, SURDS AND LOGARITHMS

EXERCISE I: INDICES

1. Solve for x in the equation $6^{x-2} \times 2^{3-x} = \frac{8}{3}$.
2. Solve for x in the following equations:
   a. $3^{2x-1} + 26\left(3^{x-1}\right) - 43 = 0$ b. $4^x - 3\left(2^{x+1}\right) + 8 = 0$ c. $2^x - 3\left(\sqrt{2}\right)^x - 4 = 0$
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. $2^{2x-5} - 3\left(2^{x-5}\right) + 1 = 0$ c. $16^x - 5\left(2^{2x-1}\right) + 1 = 0$
5. Solve the system of simultaneous equations: $\begin{cases} 3^x \times 9^y = \frac{1}{3} \\ \frac{8^x}{2^{y+1}} = 8 \end{cases}$.
6. Solve the inequality $3^{x^2-3x} > \frac{1}{9}$.
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 th equation $\left(1 + \frac{1}{x}\right)^{x+1} = \left(1 + \frac{1}{y}\right)^y$.
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 $t^{3/2}$ is 50% larger than $t^{2/3}$, 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 $\left(a + b\sqrt{c}\right)\left(a - b\sqrt{c}\right) = a^2 - b^2c$.
2. Simplify the expression $\left(\sqrt{3} - 1\right)^2\left(2\sqrt{3} + 1\right)$ 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 $\left[\frac{\sqrt{2}}{2}\left(1 + \sqrt{3}\right)\right]^2 = 2 + \sqrt{3}$.

Indices Surds And Logarithms Equation Mathematics Stack

J Elliott

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