

Topic 3 : Surds, Indices, Exponential and Logarithmic Functions

1. (a) By using the substitution $y = e^{\frac{x}{2}}$, solve the equation $e^x = 2e^{\frac{x}{2}} + 15$
(b) Solve the equation $\log_3 (4x + 1) - 2\log_3 (2x) = 1$
(c) Without using calculator, show that $\frac{\lg(\sqrt[3]{2}) + \lg(\sqrt[3]{18}) - \lg(\sqrt[3]{25})}{\lg 6 - \lg 5} = \frac{2}{3}$
(d) Sketch the graph of $y = e^{-2x}$. Find the equation of the straight line that must be added to your sketch to obtain the solution of the equation $2e^{2x} = 4xe^{2x} + 1$.
2. (a) By using the substitution $y = e^{2x}$, solve the equation $e^{2x} - 10e^{-2x} = 3$.
(b) Solve the equation $\lg (3y + 2) + \lg (5y - 3) = 1 + 2\lg y$.
(c) (i) Using graph paper, draw the graph of $y = \ln 2x - 1$ for $0.5 \leq x \leq 3$, taking intervals of 0.5.
(ii) Express $(2x)^2 = e^{4-x}$ in the form $\ln 2x - 1 = ax + b$.
(iii) By drawing an appropriate straight line on your diagram, obtain an approximate solution of the equation $(2x)^2 = e^{4-x}$.
3. (a) Solve the equation $2 + 2\log_2 (2x) = \log_2 (2x + 5)$.
(b) Solve the equation $7^x = 2^{x+3}$.
(c) On the graph paper, draw the graph of $y = e^{1-x}$ for $-1 \leq x \leq 2$, taking intervals of 0.5. By drawing an appropriate straight line, obtain an approximate solution of the equation $1 - x = \ln(x + 1)$.
4. (a) Solve the equation $1 + \lg (x + 2) = \lg 2 + \lg (2x^2 + 7)$.
(b) By means of substitution $2^x = u$, solve the equation $2^{1-x} - 2^{1+2x} - 3 = 0$.
(c) (i) Sketch the graph of $y = e^{1-3x}$.
(ii) Insert in your sketch, the additional straight line graph required to illustrate how a graphical solution of the equation $1 - \ln(3x - 1) = 3x$ may be obtained.
(d) Given that $\log_{10} 11 = a$ and $\log_{10} 5 = b$, find an expression for $\log_{10} \sqrt{11/2}$ in terms of a and b , in its simplest form.
5. (a) Solve the simultaneous equations $\lg (x + 1) = \lg y - 1$,
 $\log_5 (y - 7x) = 2$.
(b) The equation of a curve is $y = ax^n + 3$. Given that the points (4, 15) and (8, 195) lie on the curve, calculate the value of a and of n . If the curve passes through the point $(-1, p)$, find the value of p .
(c) The curve $y = \ln \sqrt{x+2}$ cuts the x -axis at P and y -axis at Q .
(i) Find the coordinates of P and Q .
(ii) Sketch the curve.
(iii) Insert on your sketch the additional graph required to obtain a graphical solution of the equation $x = e^{1-2x} - 2$.

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