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 $\dfrac{\lg(\sqrt[3]{2}) + \lg(\sqrt[3]{18}) - \lg(\sqrt[3]{25})}{\lg 6 - \lg 5} = \dfrac{2}{3}$

          (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 $0.5 \le x \le 3$, 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 $-1 \le x \le 2$, 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 $2^{1-x} - 2^{1+x} - 3 = 0$.

          (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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