

### 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  $x = e^{1-2x} - 2$ .

# Mathematics Sl Paper Tz2

**Michael Seilmaier**



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Richard K. Guy,1984

*Mathematical Reviews* ,1998

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