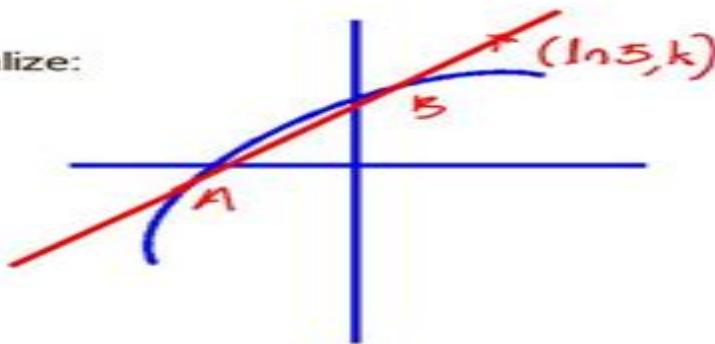


5 The curve  $y = 5 - e^{2x}$  intersects the coordinate axes at the points  $A$  and  $B$ .

- Given that the line  $AB$  passes through the point with coordinates  $(\ln 5, k)$ . Find the value of  $k$ . [5]
- In order to solve the equation  $x = \ln \sqrt{9-x}$ , a graph of a suitable straight line is drawn on the same set of axes as the graph of  $y = 5 - e^{2x}$ . Find the equation of this straight line. [3]

### Solution:

Student can draw a diagram to help them visualize:



5. (i) When  $x = 0$ ,  $y = 5 - e^0 = 4$   
 $\therefore A (0, 4)$   
 When  $y = 0$ ,  
 $0 = 5 - e^{2x}$   
 $e^{2x} = 5$   
 $2x = \ln 5$   
 $x = \frac{1}{2} \ln 5$   
 $\therefore B (\frac{1}{2} \ln 5, 0)$

$$\begin{aligned}\text{Gradient of } AB &= \frac{4-0}{0-\frac{1}{2} \ln 5} \\ &= \frac{4}{-\frac{\ln 5}{2}} \\ &= -\frac{8}{\ln 5}\end{aligned}$$

$\therefore$  the equation of  $AB$  is

$$y = -\frac{8}{\ln 5}x + 4 \quad \text{.....(1)}$$

Substitute  $(\ln 5, k)$  into (1),

$$\begin{aligned}k &= -\frac{8}{\ln 5}(\ln 5) + 4 \\ &= -8 + 4 \\ &= -4\end{aligned}$$

(ii)  $x = \ln \sqrt{9-x}$   
 $x = \ln (9-x)^{\frac{1}{2}}$   
 $x = \frac{1}{2} \ln (9-x)$   
 $2x = \ln (9-x)$   
 $e^{2x} = 9-x$   
 $x-9 = -e^{2x}$   
 $x-4 = 5 - e^{2x}$   
 $\Rightarrow$  the equation of the straight line is  
 $y = x - 4.$

To solve this type of question, try to express one side as  $5 - e^{2x}$ .

# O Level Maths D3

**Anne Byrne, Madeleine Leonard**

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**The Grants Register 2016** Palgrave Macmillan Ltd,2016-12-27 The most comprehensive guide on postgraduate grants and professional funding globally For thirty four years it has been the leading source for up to date information on the availability of and eligibility for postgraduate and professional awards Each entry is verified by its awarding body and all information is updated annually **Whitaker's Cumulative Book List** ,1969 **Women and Irish Society** Anne Byrne,Madeleine Leonard,1997 A Sociological Reader Presents up to date research on the changing role of women in Irish society Includes contributions by 39 sociologists from all over Ireland and offers valuable insights on women's contemporary lives It is the first such sociological reader to cover Ireland both North and South **The Bookseller** ,1969 Vols for 1871-76 1913-14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series **British Books in Print** ,1970

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