

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

- (i) Given that the line AB passes through the point with coordinates $(\ln 5, k)$, find the value of k . [5]
 (ii) 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 $x = 0$, $y = 5 - e^0 = 4$

$$\therefore A(0, 4)$$

$$\text{When } y = 0,$$

$$0 = 5 - e^{2x}$$

$$e^{2x} = 5$$

$$2x = \ln 5$$

$$x = \frac{1}{2} \ln 5$$

$$\therefore B\left(\frac{1}{2} \ln 5, 0\right)$$

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

$\therefore$ the equation of AB is

$$y = -\frac{8}{\ln 5}x + 4 \dots\dots\dots \textcircled{1}$$

Substitute $(\ln 5, k)$ into $\textcircled{1}$,

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

- (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 $5 - e^{2x}$.

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