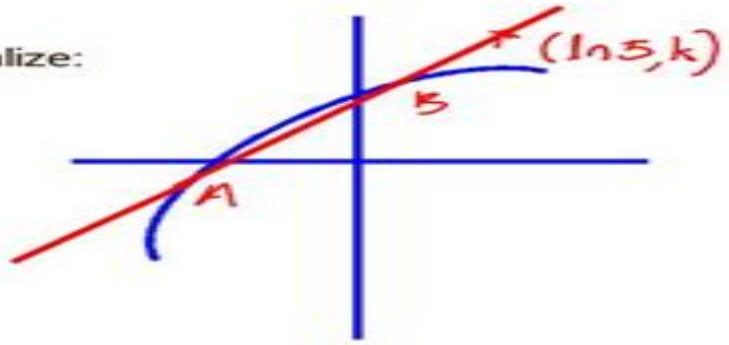
5 The curve $y = 5 - e^{2x}$ intersects the coordinate axes at the points A and B.

(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 $x = 0$, $y = 5 - e^0 = 4$

$\therefore A(0, 4)$

When $y = 0$,

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

$e^{2x} = 5$

$2x = \ln 5$

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

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

Gradient of $AB = \frac{4 - 0}{0 - \frac{1}{2} \ln 5}$

$= \frac{4}{-\frac{\ln 5}{2}}$

$= -\frac{8}{\ln 5}$

$\therefore$ the equation of AB is

$y = -\frac{8}{\ln 5} x + 4$ ..... ①

Substitute $(\ln 5, k)$ into ①,

$k = -\frac{8}{\ln 5} (\ln 5) + 4$

$= -8 + 4$

$= -4$

(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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Annelies Wilder-Smith

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