- (i) Given that the line AB passes through the point with coordinates (In 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 $y = 0$,
 $0 = 5 - e^{2x}$
 $e^{2x} = 5$
 $2x = \ln 5$
 $x = \frac{1}{2} \ln 5$

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

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

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

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

$$y = -\frac{8}{\ln 5}x + 4...$$

Substitute (ln 5, k) into ①,

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

$$= -8 + 4$$

$$= -4$$

(ii)
$$x = \ln \sqrt{9 - x}$$

$$x = \ln (9 - x)^{\frac{1}{2}}$$

$$x = \frac{1}{2} \ln (9 - x)$$

$$2x = \ln (9 - x)$$

$$e^{2x} = 9 - x$$

$$x - 9 = -e^{2x}$$

$$x - 4 = 5 - e^{2x}$$

$$\Rightarrow \text{ the equation of the straight line is } y = x - 4.$$

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S. A. I. Gopal SUNKARA

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O Level Maths Past Paper Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "O Level Maths Past Paper," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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