

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 $y = 0,$

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

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

$$2x = \ln 5$$

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

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

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

\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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RD Boyd



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1. Understanding the eBook Gce Maths Questions Answers
 - The Rise of Digital Reading Gce Maths Questions Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gce Maths Questions Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gce Maths Questions Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gce Maths Questions Answers
 - Personalized Recommendations
 - Gce Maths Questions Answers User Reviews and Ratings
 - Gce Maths Questions Answers and Bestseller Lists
5. Accessing Gce Maths Questions Answers Free and Paid eBooks
 - Gce Maths Questions Answers Public Domain eBooks
 - Gce Maths Questions Answers eBook Subscription Services
 - Gce Maths Questions Answers Budget-Friendly Options

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 - ePub, PDF, MOBI, and More
 - Gce Maths Questions Answers Compatibility with Devices
 - Gce Maths Questions Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Gce Maths Questions Answers
 - Interactive Elements Gce Maths Questions Answers
8. Staying Engaged with Gce Maths Questions Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gce Maths Questions Answers
9. Balancing eBooks and Physical Books Gce Maths Questions Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gce Maths Questions Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gce Maths Questions Answers
 - Setting Reading Goals Gce Maths Questions Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gce Maths Questions Answers
 - Fact-Checking eBook Content of Gce Maths Questions Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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