

- 1 Find the set of values of x satisfying the inequality

$$|x + 2a| > 3|x - a|,$$

where a is a positive constant.

[4]

- 2 Solve the equation

$$2 \ln(5 - e^{-2x}) = 1,$$

giving your answer correct to 3 significant figures.

[4]

- 3 Solve the equation

$$\cos(x + 30^\circ) = 2 \cos x,$$

giving all solutions in the interval $-180^\circ < x < 180^\circ$.

[5]

- 4 The parametric equations of a curve are

$$x = t - \tan t, \quad y = \sec t,$$

for $-\frac{1}{2}\pi < t < \frac{1}{2}\pi$.

- (i) Show that $\frac{dy}{dx} = \cot t$.

[5]

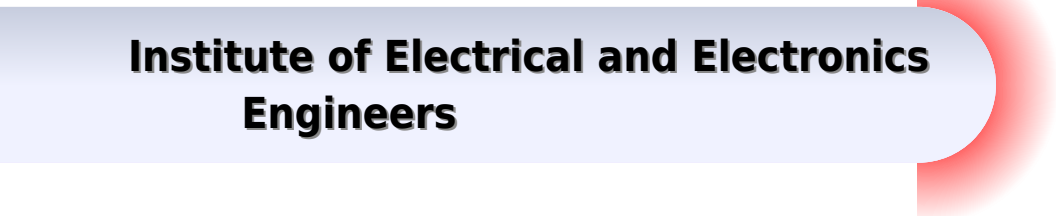
- (ii) Hence find the x -coordinate of the point on the curve at which the gradient is equal to 2. Give your answer correct to 3 significant figures.

[2]

- 5 (i) The polynomial $f(x)$ is of the form $(x - 2)^2 g(x)$, where $g(x)$ is another polynomial. Show that $(x - 2)$ is a factor of $f'(x)$. [2]
- (ii) The polynomial $x^5 + ax^4 + 3x^3 + bx^2 + a$, where a and b are constants, has a factor $(x - 2)^2$. Using the factor theorem and the result of part (i), or otherwise, find the values of a and b . [5]

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Table of Contents Mathematics Ana 2014 Paper2

1. Understanding the eBook Mathematics Ana 2014 Paper2
 - The Rise of Digital Reading Mathematics Ana 2014 Paper2
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Ana 2014 Paper2
 - 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 Mathematics Ana 2014 Paper2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Ana 2014 Paper2

- Personalized Recommendations
- Mathematics Ana 2014 Paper2 User Reviews and Ratings
- Mathematics Ana 2014 Paper2 and Bestseller Lists
- 5. Accessing Mathematics Ana 2014 Paper2 Free and Paid eBooks
 - Mathematics Ana 2014 Paper2 Public Domain eBooks
 - Mathematics Ana 2014 Paper2 eBook Subscription Services
 - Mathematics Ana 2014 Paper2 Budget-Friendly Options
- 6. Navigating Mathematics Ana 2014 Paper2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Ana 2014 Paper2 Compatibility with Devices
 - Mathematics Ana 2014 Paper2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Ana 2014 Paper2
 - Highlighting and Note-Taking Mathematics Ana 2014 Paper2
 - Interactive Elements Mathematics Ana 2014 Paper2
- 8. Staying Engaged with Mathematics Ana 2014 Paper2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Ana 2014 Paper2
- 9. Balancing eBooks and Physical Books Mathematics Ana 2014 Paper2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Ana 2014 Paper2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Ana 2014 Paper2
 - Setting Reading Goals Mathematics Ana 2014 Paper2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Ana 2014 Paper2

- Fact-Checking eBook Content of Mathematics Ana 2014 Paper2
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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