

Subject - Math AA(Standard Level)

Topic - Functions

Year - May 2021 - Nov 2022

Paper -2

Questions

Question 1

[Maximum mark: 7]

All living plants contain an isotope of carbon called carbon-14. When a plant dies, the isotope decays so that the amount of carbon-14 present in the remains of the plant decreases. The time since the death of a plant can be determined by measuring the amount of carbon-14 still present in the remains.

The amount, A , of carbon-14 present in a plant t years after its death can be modelled by $A = A_0 e^{-kt}$ where $t \geq 0$ and A_0, k are positive constants.

At the time of death, a plant is defined to have 100 units of carbon-14.

(a) Show that $A_0 = 100$. [1]

The time taken for half the original amount of carbon-14 to decay is known to be 5730 years.

(b) Show that $k = \frac{\ln 2}{5730}$. [3]

(c) Find, correct to the nearest 10 years, the time taken after the plant's death for 25 % of the carbon-14 to decay. [3]

Question 2

[Maximum mark: 6]

The functions f and g are defined for $x \in \mathbb{R}$ by $f(x) = 6x^2 - 12x + 1$ and $g(x) = -x + c$, where $c \in \mathbb{R}$.

(a) Find the range of f . [2]

(b) Given that $(g \circ f)(x) \leq 0$ for all $x \in \mathbb{R}$, determine the set of possible values for c . [4]

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Table of Contents November 2013 SI Math Paper

1. Understanding the eBook November 2013 SI Math Paper
 - The Rise of Digital Reading November 2013 SI Math Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2013 SI Math Paper
 - 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 November 2013 SI Math Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2013 SI Math Paper

- Personalized Recommendations
- November 2013 Sl Math Paper User Reviews and Ratings
- November 2013 Sl Math Paper and Bestseller Lists
- 5. Accessing November 2013 Sl Math Paper Free and Paid eBooks
 - November 2013 Sl Math Paper Public Domain eBooks
 - November 2013 Sl Math Paper eBook Subscription Services
 - November 2013 Sl Math Paper Budget-Friendly Options
- 6. Navigating November 2013 Sl Math Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2013 Sl Math Paper Compatibility with Devices
 - November 2013 Sl Math Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2013 Sl Math Paper
 - Highlighting and Note-Taking November 2013 Sl Math Paper
 - Interactive Elements November 2013 Sl Math Paper
- 8. Staying Engaged with November 2013 Sl Math Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2013 Sl Math Paper
- 9. Balancing eBooks and Physical Books November 2013 Sl Math Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2013 Sl Math Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine November 2013 Sl Math Paper
 - Setting Reading Goals November 2013 Sl Math Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of November 2013 Sl Math Paper

- Fact-Checking eBook Content of November 2013 SI Math Paper
- 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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