

Subject – Math AI (Standard Level)
Topic – Calculus
Year – May 2021 – Nov 2022
Paper -2
Questions

Question 1

(a) $2(8 \times 4 + 3 \times 4 + 3 \times 8)$
 $= 136 \text{ (cm}^2\text{)}$

M1

A1

[2 marks]

(b) $\sqrt{8^2 + 4^2 + 3^2}$
 (AG $\rightarrow$) 9.43 (cm) (9.4339..., $\sqrt{89}$)

M1

A1

[2 marks]

(c) $-2x + 220 = 0$
 $x = 110$
 110 000 (boxes)

M1

A1

A1

[3 marks]

(d) $P(x) = \int -2x + 220 \, dx$

M1

Note: Award **M1** for evidence of integration.

$P(x) = -x^2 + 220x + c$

A1A1

Note: Award **A1** for either $-x^2$ or $220x$ award **A1** for both correct terms and constant of integration.

$1700 = -(20)^2 + 220(20) + c$

M1

$c = -2300$

$P(x) = -x^2 + 220x - 2300$

A1

[5 marks]

(e) $-x^2 + 220x - 2300 = 0$
 $x = 11.005$
 11 006 (boxes)

M1

A1

A1

[3 marks]

Total [15 marks]

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Table of Contents May 20paper Math Sl Answers

1. Understanding the eBook May 20paper Math Sl Answers
 - The Rise of Digital Reading May 20paper Math Sl Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying May 20paper Math Sl 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 May 20paper Math Sl Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from May 20paper Math Sl Answers
 - Personalized Recommendations
 - May 20paper Math Sl Answers User Reviews and Ratings
 - May 20paper Math Sl Answers and Bestseller Lists
5. Accessing May 20paper Math Sl Answers Free and Paid eBooks
 - May 20paper Math Sl Answers Public Domain eBooks
 - May 20paper Math Sl Answers eBook Subscription Services
 - May 20paper Math Sl Answers Budget-Friendly Options

6. Navigating May 20paper Math Sl Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - May 20paper Math Sl Answers Compatibility with Devices
 - May 20paper Math Sl Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of May 20paper Math Sl Answers
 - Highlighting and Note-Taking May 20paper Math Sl Answers
 - Interactive Elements May 20paper Math Sl Answers
8. Staying Engaged with May 20paper Math Sl Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers May 20paper Math Sl Answers
9. Balancing eBooks and Physical Books May 20paper Math Sl Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection May 20paper Math Sl Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine May 20paper Math Sl Answers
 - Setting Reading Goals May 20paper Math Sl Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of May 20paper Math Sl Answers
 - Fact-Checking eBook Content of May 20paper Math Sl Answers
 - 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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