

Suggested Solutions to 2014 SH2 H2 Mathematics Preliminary Examination Paper 1

1 (i)	Since $A(-1, 20)$ lies on the curve, $a(-1)^2 + b(-1) + c = 20 \Rightarrow a - b + c = 20 \quad (1)$ Since $B(3, 4)$ lies on the curve, $a(3)^2 + b(3) + c = 4 \Rightarrow 9a + 3b + c = 4 \quad (2)$ Since $B(3, 4)$ is a stationary point, $2a(3) + b = 0 \Rightarrow 6a + b = 0 \quad (3)$ $\begin{array}{l} \text{SYS MATRIX (3x3=9)} \\ \begin{array}{ccc c} 1 & -1 & 1 & 20 \\ 9 & 3 & 1 & 4 \\ 6 & 1 & 0 & 0 \end{array} \end{array}$ $\begin{array}{l} \text{Solution} \\ x_1 = 1 \\ x_2 = -6 \\ x_3 = 13 \end{array}$ $\begin{array}{l} 1. \rightarrow 1 = 1 \\ \text{STAT} \text{ SOLVE } \text{EQN} \text{ SOLVE } \text{STAT} \text{ BACK } \text{STAT} \text{ SOLVE } \end{array}$ $a = 1, b = -6, c = 13$
1 (ii)	$y = x^2 - 6x + 13 = (x - 3)^2 + 4$ Hence $y = x^2$ ↓ translate 3 units in the positive x-direction $y = (x - 3)^2$ ↓ translate 4 units in the positive y-direction $y = (x - 3)^2 + 4 = x^2 - 6x + 13$
2	$\int \frac{x}{(1+4x^2)^2} dx = \int \frac{1}{8} \cdot \frac{8x}{(1+4x^2)^2} dx$ $= -\frac{1}{8} \left(\frac{1}{1+4x^2} \right) + c$ $\int \frac{4x^2}{(1+4x^2)^2} dx = \int 4x \cdot \frac{x}{(1+4x^2)^2} dx$ $= 4x \left(-\frac{1}{8(1+4x^2)} \right) - \int 4 \left(-\frac{1}{8(1+4x^2)} \right) dx$ $= -\frac{x}{2(1+4x^2)} + \int \frac{1}{2(1+4x^2)} dx$ $= -\frac{x}{2(1+4x^2)} + \frac{1}{4} \tan^{-1} 2x + c$

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Table of Contents Maths Prelim Exam 2014

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

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

- Fact-Checking eBook Content of Maths Prelim Exam 2014
- 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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