NATIONAL SENIOR CERTIFICATE: MATHEMATICS: PAPER I - MARKING GUIDELINES

Page 2 of 17

NOTE:

- If a candidate answers a question more than once, only mark the FIRST attempt.
- · Consistent Accuracy applies in all aspects of the marking memorandum.

SECTION A

QUESTION 1

(a)(1)	$px^{2} + 2x - 3 = 0$ $x = \frac{(-2) \pm \sqrt{(2)^{2} - 4(p)(-3)}}{2(p)}$ $x = \frac{-2 \pm \sqrt{4 + 12p}}{2p}$ $x = \frac{-2 \pm 2\sqrt{1 + 3p}}{2p}$ $x = \frac{-1 \pm \sqrt{1 + 3p}}{p}$	use of quadratic formula $x = \frac{-2 \pm \sqrt{4 + 12p}}{2p}$ simplified solution
(a)(2)	Non-real roots for: $1+3p<0$ $p<-\frac{1}{3}$	$\Delta < 0$ $\rho < -\frac{1}{3}$ No marks for $\Delta > 0$
(b)	$\sqrt{x-2} + 4 = x$ $x^{2} - 9x + 18 = 0$ $(x-2) = (x-4)^{2}$ $x-2 = x^{2} - 8x + 16$ $x = 6 \text{ or } x = 3$ $\text{n/v for } x = 3$	Isolate surd $x^2 - 4x + 4$ $x^4 - 8x + 16$ factors answer with selection
(c)	$(x+3)(x-1) \ge 0$ Crit. values: -3 ; 1 $x \le -3$ or $x \ge 1$	Number line/graph $x \le -3$ or $x \ge 1$

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Table of Contents Maths P1 Preparatory Examination September 2013

- 1. Understanding the eBook Maths P1 Preparatory Examination September 2013
 - The Rise of Digital Reading Maths P1 Preparatory Examination September 2013
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths P1 Preparatory Examination September 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths P1 Preparatory Examination September 2013
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths P1 Preparatory Examination September 2013
 - Personalized Recommendations
 - Maths P1 Preparatory Examination September 2013 User Reviews and Ratings

- Maths P1 Preparatory Examination September 2013 and Bestseller Lists
- 5. Accessing Maths P1 Preparatory Examination September 2013 Free and Paid eBooks
 - Maths P1 Preparatory Examination September 2013 Public Domain eBooks
 - Maths P1 Preparatory Examination September 2013 eBook Subscription Services
 - Maths P1 Preparatory Examination September 2013 Budget-Friendly Options
- 6. Navigating Maths P1 Preparatory Examination September 2013 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Maths P1 Preparatory Examination September 2013 Compatibility with Devices
 - Maths P1 Preparatory Examination September 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths P1 Preparatory Examination September 2013
 - Highlighting and Note-Taking Maths P1 Preparatory Examination September 2013
 - Interactive Elements Maths P1 Preparatory Examination September 2013
- 8. Staying Engaged with Maths P1 Preparatory Examination September 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths P1 Preparatory Examination September 2013
- 9. Balancing eBooks and Physical Books Maths P1 Preparatory Examination September 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths P1 Preparatory Examination September 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths P1 Preparatory Examination September 2013
 - Setting Reading Goals Maths P1 Preparatory Examination September 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths P1 Preparatory Examination September 2013
 - Fact-Checking eBook Content of Maths P1 Preparatory Examination September 2013
 - 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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