QUESTION 1

1.1 Solve for x:

$$1.1.1 \quad x^2 - 9 = 0 \tag{2}$$

1.1.2
$$x-5+\frac{2}{x}=0$$
 (correct to TWO decimal places) (4)

1.1.3
$$x = 1 + \sqrt{7 - x}$$
 (5)

$$1.1.4 x^2 + 2x - 15 \ge 0 (3)$$

1.2 Solve simultaneously for x and y in:

$$y + 2x = 3$$

$$y^2 - y = 3x^2 - 5x$$
 (6)

1.3 Simplify completely, WITHOUT the use of a calculator:
$$\sqrt[n]{\frac{10^n + 2^{n+2}}{5^{2n} + 4(5^n)}}$$
 (4) [24]

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Table of Contents Mathematics N6 Past Exam Question Papers

- 1. Understanding the eBook Mathematics N6 Past Exam Question Papers
 - The Rise of Digital Reading Mathematics N6 Past Exam Question Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics N6 Past Exam Question Papers
 - Exploring Different Genres
 - $\circ\,$ 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 N6 Past Exam Question Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics N6 Past Exam Question Papers

- Personalized Recommendations
- Mathematics N6 Past Exam Question Papers User Reviews and Ratings
- Mathematics N6 Past Exam Question Papers and Bestseller Lists
- 5. Accessing Mathematics N6 Past Exam Question Papers Free and Paid eBooks
 - Mathematics N6 Past Exam Question Papers Public Domain eBooks
 - Mathematics N6 Past Exam Question Papers eBook Subscription Services
 - Mathematics N6 Past Exam Question Papers Budget-Friendly Options
- 6. Navigating Mathematics N6 Past Exam Question Papers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mathematics N6 Past Exam Question Papers Compatibility with Devices
 - Mathematics N6 Past Exam Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics N6 Past Exam Question Papers
 - Highlighting and Note-Taking Mathematics N6 Past Exam Question Papers
 - Interactive Elements Mathematics N6 Past Exam Question Papers
- 8. Staying Engaged with Mathematics N6 Past Exam Question Papers
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - \circ Following Authors and Publishers Mathematics N6 Past Exam Question Papers
- 9. Balancing eBooks and Physical Books Mathematics N6 Past Exam Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics N6 Past Exam Question Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics N6 Past Exam Question Papers
 - Setting Reading Goals Mathematics N6 Past Exam Question Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics N6 Past Exam Question Papers

- Fact-Checking eBook Content of Mathematics N6 Past Exam Question Papers
- 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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