

Name: _____

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**Secondary 3 E Mathematics
WAI Mock Paper**

Topic: Quadratic and Fractional Equations

Duration: 60 mins



Solving Fractional Equations (Quadratic Formula)

1	Solve the equation $\frac{1}{x+1} - \frac{6x^2-18}{1-x^2} = 4$.	[3]
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Solving by Completing The Square

1	(a) Express $x^2 - 3x - 8$ in the form $(x + a)^2 + b$. (b) Hence, solve the equation $x^2 - 3x - 8 = 0$, giving your answers correct to two decimal places.	[2] [2]
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Sketching

1	(i) Sketch the graph of $y = -(x - 1)^2 + 4$. Indicate clearly the values of the points where the graph crosses the axes and the turning point on the curve. (ii) Write down the equation of the line of symmetry of the graph $y = -(x - 1)^2 + 4$. (iii) explain why there is no intersection between the line $y = 5$ and $y = -(x - 1)^2 + 4$.	 [3] [1] [1]
2	(a) Factorise $-x^2 + 5x + 6$. (b) Sketch the graph of $y = -x^2 + 5x + 6$, indicate clearly the x -intercepts and y -intercept. (c) Write down the equation of the line of symmetry. (d) Write down the equation of a horizontal line that intersects the graph of $y = -x^2 + 5x + 6$ at only one point.	 [2] [2] [1] [1]

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Table of Contents Grademathematics Exam Paper For 24

1. Understanding the eBook Grademathematics Exam Paper For 24
 - The Rise of Digital Reading Grademathematics Exam Paper For 24
 - Advantages of eBooks Over Traditional Books
2. Identifying Grademathematics Exam Paper For 24
 - 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 Grademathematics Exam Paper For 24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grademathematics Exam Paper For 24
 - Personalized Recommendations
 - Grademathematics Exam Paper For 24 User Reviews and Ratings
 - Grademathematics Exam Paper For 24 and Bestseller Lists
5. Accessing Grademathematics Exam Paper For 24 Free and Paid eBooks

- Grademathematics Exam Paper For 24 Public Domain eBooks
 - Grademathematics Exam Paper For 24 eBook Subscription Services
 - Grademathematics Exam Paper For 24 Budget-Friendly Options
6. Navigating Grademathematics Exam Paper For 24 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grademathematics Exam Paper For 24 Compatibility with Devices
 - Grademathematics Exam Paper For 24 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grademathematics Exam Paper For 24
 - Highlighting and Note-Taking Grademathematics Exam Paper For 24
 - Interactive Elements Grademathematics Exam Paper For 24
 8. Staying Engaged with Grademathematics Exam Paper For 24
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grademathematics Exam Paper For 24
 9. Balancing eBooks and Physical Books Grademathematics Exam Paper For 24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grademathematics Exam Paper For 24
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Grademathematics Exam Paper For 24
 - Setting Reading Goals Grademathematics Exam Paper For 24
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Grademathematics Exam Paper For 24
 - Fact-Checking eBook Content of Grademathematics Exam Paper For 24
 - 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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