

Name: _____

Class: _____

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**Secondary 3 E Mathematics
WAI Mock Paper**

Topic: Quadratic and Fractional Equations

Duration: 60 mins

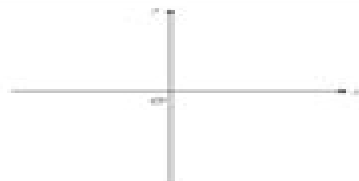

Solving Fractional Equations (Quadratic Formula)

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

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 Maths Sec Exam Paper

1. Understanding the eBook Maths Sec Exam Paper
 - The Rise of Digital Reading Maths Sec Exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Sec Exam Paper
 - 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 Sec Exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Sec Exam Paper
 - Personalized Recommendations
 - Maths Sec Exam Paper User Reviews and Ratings
 - Maths Sec Exam Paper and Bestseller Lists

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