

Name: _____

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**Secondary 3 E Mathematics
WAI Mock Paper**

Topic: Quadratic and Fractional Equations

Duration: 60 mins

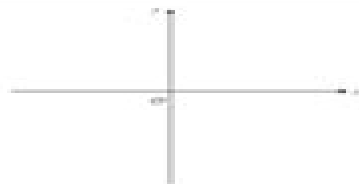


Solving Fractional Equations (Quadratic Formula)

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

Sketching

1	<p>(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.</p> <p>(ii) Write down the equation of the line of symmetry of the graph $y = -(x - 1)^2 + 4$.</p> <p>(iii) explain why there is no intersection between the line $y = 5$ and $y = -(x - 1)^2 + 4$.</p>	 <p>[3]</p> <p>[1]</p> <p>[1]</p>
2	<p>(a) Factorise $-x^2 + 5x + 6$.</p> <p>(b) Sketch the graph of $y = -x^2 + 5x + 6$, indicate clearly the x-intercepts and y-intercept.</p> <p>(c) Write down the equation of the line of symmetry.</p> <p>(d) Write down the equation of a horizontal line that intersects the graph of $y = -x^2 + 5x + 6$ at only one point.</p>	 <p>[2]</p> <p>[2]</p> <p>[1]</p> <p>[1]</p>

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BM King

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located on the right side of the slide, partially overlapping the light blue bar.

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Developing Language and Literacy in English across the Secondary School Curriculum Urszula Clark,2018-07-21 This book draws on original research and a language based pedagogy approach to examine how secondary schools in the UK can devise and implement coherent language and literacy across curriculum policies and strategies so that grammar and associated metalanguage becomes an integral part of their day to day curriculum practices The research was undertaken in three 11 to 18 secondary schools in England where the majority of students are categorised as having English as a second language EAL and where a significant minority are also socially disadvantaged in two of the three The author argues that paying explicit attention to the linguistic structures through which subject knowledge is realised can be of benefit to all pupils in ways that are also socially just and democratic This book provides an important bridge between academic theory and educational practice that will appeal to applied linguists and sociolinguists as well as to teachers teacher trainers and practitioners

Get Your Child into the School You Want Katie Kraiss,2010-10-29 Whether you are contemplating private education or trying to secure a place in the best local school this book will give you proven strategies for success This book will help you pick a school in which your child will flourish and give you the full low down on how to play the system to secure your child s place If your child faces an entrance exam or interview there is a thorough guide to tuition coaching and performance and should you need it there is a comprehensive guide to making a successful appeal NOT GOT MUCH TIME One five and ten minute introductions to key principles to get you started AUTHOR INSIGHTS Lots of instant help with common problems and quick tips for success based on the author s many years of experience EXTEND YOUR KNOWLEDGE Extra online articles at www.teachyourself.com to give you a richer understanding of the school application process THINGS TO REMEMBER Quick refreshers to help you remember the key facts TRY THIS Innovative exercises illustrate what you ve learnt and how to use it

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