

Name: _____

Class: _____

Date: _____

**Secondary 3 E Mathematics
WAI Mock Paper**

Topic: Quadratic and Fractional Equations

Duration: 60 mins


Solving Fractional Equations (Quadratic Formula)

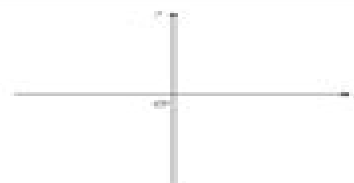
1	Solve the equation $\frac{1}{x+1} - \frac{6x^2-18}{1-x^2} = 4$.	[3]
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Solving by Completing The Square

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.	[3]
	(ii) Write down the equation of the line of symmetry of the graph $y = -(x - 1)^2 + 4$.	[1]
	(iii) explain why there is no intersection between the line $y = 5$ and $y = -(x - 1)^2 + 4$.	[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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Xiang Xie



Maths Sec Exam Paper:

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Maths Sec Exam Paper**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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