

Name: \_\_\_\_\_

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Date: \_\_\_\_\_

**Secondary 3 E Mathematics  
WAI Mock Paper**

Topic: Quadratic and Fractional Equations

Duration: 60 mins

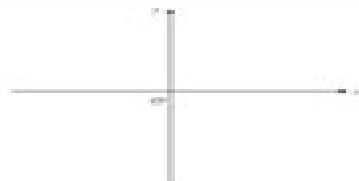


**Solving Fractional Equations (Quadratic Formula)**

|   |  |     |
|---|--|-----|
| 1 | Solve the equation $\frac{1}{x+1} - \frac{6x^2-18}{1-x^2} = 4$ . | [3] |
|---|--|-----|

**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 <math>y = -(x - 1)^2 + 4</math>.<br/>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 <math>y = -(x - 1)^2 + 4</math>.</p> <p>(iii) explain why there is no intersection between the line <math>y = 5</math> and <math>y = -(x - 1)^2 + 4</math>.</p> |  <p>[3]</p> <p>[1]</p> <p>[1]</p>              |
| 2 | <p>(a) Factorise <math>-x^2 + 5x + 6</math>.</p> <p>(b) Sketch the graph of <math>y = -x^2 + 5x + 6</math>, 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 <math>y = -x^2 + 5x + 6</math> at only <b>one</b> point.</p>  |  <p>[2]</p> <p>[2]</p> <p>[1]</p> <p>[1]</p> |

# Maths Sec Exam Paper

**ML Morrison**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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