Name: _____   Class: _____   Date: _____

Secondary 3 E Mathematics
WA1 Mock Paper

Topic: Quadratic and Fractional Equations

Duration: 60 mins

40

Solving Fractional Equations (Quadratic Formula)

1	Solve the equation $\frac{1}{x+1} - \frac{6x^2 - 10}{1 - x^2} = 4$.	[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	(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 $-x^2 + 5x + 6$.	[2]
	(b) Sketch the graph of $y = -x^2 + 5x + 6$, indicate clearly the x-intercepts and y-intercept.	[2]
	(c) Write down the equation of the line of symmetry.	[1]
	(d) Write down the equation of a horizontal line that intersects the graph of $y = -x^2 + 5x + 6$ at only **one** point.	[1]

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N Noddings

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Catalogue of Scientific Papers ,1896   Two-Dimensional Homotopy and Combinatorial Group Theory Cynthia Hog-Angeloni,Wolfgang Metzler,Allan J. Sieradski,1993-12-09 Basic work on two dimensional homotopy theory dates back to K Reidemeister and J H C Whitehead Much work in this area has been done since then and this book considers the current state of knowledge in all the aspects of the subject The editors start with introductory chapters on low dimensional topology covering both the geometric and algebraic sides of the subject the latter including crossed modules Reidemeister Peiffer identities and a concrete and modern discussion of Whitehead s algebraic classification of 2 dimensional homotopy types Further chapters have been skilfully selected and woven together to form a coherent picture The latest algebraic results and their applications to 3 and 4 dimensional manifolds are dealt with The geometric nature of the subject is illustrated to the full by over 100 diagrams Final chapters summarize and contribute to the present status of the conjectures of Zeeman Whitehead and Andrews Curtis No other book covers all these topics Some of the material here has been used in courses making this book valuable for anyone with an interest in two dimensional homotopy theory from graduate students to research workers

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