Name:

Class:

Date:

Secondary 3 E Mathematics WA1 Mock Paper

Topic: Quadratic and Fractional Equations

Duration: 60 mins



Solving Fractional Equations (Quadratic Formula)

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	[2]
	correct to two decimal places.	

Sketching

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

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