Name: _____ Class: _____ Date: _____

Secondary 3 Additional Mathematics
WA1 Mock Paper

Topic: Quadratic Functions, Equations & Inequalities

Duration: 60 mins

40

Quadratic Functions

1	(a) A dolphin jumps out of the water during a dolphin show. The height, y m, of the dolphin is given by $y = -4.5t^2 + 9t$, where t is the time in seconds after the dolphin jumps out of the water.	
	(i) Express $y = -4.5t^2 + 9t$ in the form $y = a(t-h)^2 + k$.	[2]
	(ii) How long did it take the dolphin to reach the maximum height and what is the maximum height?	[2] [2]
	(iii) Find the range of values of t where the height of the dolphin is at least 3.375 m.	[4]

Quadratic Inequalities

1	Find the set of values of x for which $(2 + 3x)(x - 5) > 2 + 3x$.	[3]
2	Find the range of values of x where the curve $y = \frac{6 - x^2}{4x^2 - 12x + 9}$ is below the x–axis.	[4]

Nature of Roots (Finding Unknown Value)

1	(a) The equation of a curve is $y = px^2 - 4x + 16p$. Find the range of values of p given that the curve lies completely above the x-axis.	[4]
	(b) Find the value of h for which the line $y = 2x + h$ is a tangent to the curve $y = 2x^2 - 6x + 5$.	[4]
2	Determine the range of values of k such that the curve $y = 3x^2 + k^2 - k - 3$ intersects the line $y = 3kx$ at two distinct points.	[4]

Nature of Roots (Proving)

1	(a) Show that the equation $x^2 + 2(m - 1)x + (2m - 3) = 0$ has real roots for all real values of x.	[3]
	(b) Explain why the quadratic expression $-x^2 + 3x - 4$ is always negative.	[3]

Simultaneous Equation

1	Find the coordinates of the points of intersection of the curve $x^2 - xy + y^2 = 16$ and the line $2x - 3y = 4$.	[5]

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Padhraic Smyth

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Table of Contents Sample Exam Math Secondary 3 Quebec

1. Understanding the eBook Sample Exam Math Secondary 3 Quebec
    - The Rise of Digital Reading Sample Exam Math Secondary 3 Quebec
    - Advantages of eBooks Over Traditional Books
2. Identifying Sample Exam Math Secondary 3 Quebec
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Sample Exam Math Secondary 3 Quebec
    - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Exam Math Secondary 3 Quebec
    - Personalized Recommendations
    - Sample Exam Math Secondary 3 Quebec User Reviews and Ratings
    - Sample Exam Math Secondary 3 Quebec and Bestseller Lists
5. Accessing Sample Exam Math Secondary 3 Quebec Free and Paid eBooks

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