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 $y = a(t - h)^2 + k$. (ii) How long did it take the dolphin to reach the maximum height and what is the maximum height? (iii) Find the range of values of t where the height of the dolphin is at least 3.375 m.	[2] [2] [2] [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. (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] [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. (b) Explain why the quadratic expression $-x^2 + 3x - 4$ is always negative.	[3] [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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