

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

Class: \_\_\_\_\_

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

**Secondary 3 Additional Mathematics  
WAI Mock Paper**

Topic: Quadratic Functions, Equations &amp; Inequalities

Duration: 60 mins


**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]
	(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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**Yijin Wang**



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