

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 $y = a(t - h)^2 + k$ . (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]
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**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]
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**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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# Sample Exam Math Secondary 3 Quebec

**JR Anderson**



### **Sample Exam Math Secondary 3 Quebec:**

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web diagram assignment some relays can be located on the side for example the unloading relay for terminal 15 k9 the latest information on the location of fuses and relays for your vehicle should be located next to this box in a brochure form

designation several fuses are responsible for the cigarette lighter 97 111 113 115 118

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web aug 19 2018 it is located behind the fuse box bmw x5 fuse box diagram relay block under the glove compartment fuse box in the luggage compartment bmw x5 fuse box diagram luggage compartment some relays can also be located under the lining in the luggage compartment for example a compressor pump relay a pneumatic suspension

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web apr 1 2022 ecm in the fuse relay box in the engine compartment 27 fuel pump control unit 3 0si right side of luggage



compartment 28 fuel pump relay 4 8i right side of luggage compartment 29 underhood fuse and relay box 30 passenger compartment fuse box 31 fuse relay box luggage compartment 1

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web as you can see from the photo relays are located on top of this block here s a general outline relay and fuse box in the trunk of a bmw x5 e53 to access them grasp the door handle on the right side panel from above and pull it down

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