

Name: _____

Class: _____

Date: _____

**Secondary 3 Additional Mathematics
WAI Mock Paper**

Topic: Quadratic Functions, Equations & 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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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
 - Sample Exam Math Secondary 3 Quebec Public Domain eBooks
 - Sample Exam Math Secondary 3 Quebec eBook Subscription Services
 - Sample Exam Math Secondary 3 Quebec Budget-Friendly Options
6. Navigating Sample Exam Math Secondary 3 Quebec eBook Formats

- ePub, PDF, MOBI, and More
 - Sample Exam Math Secondary 3 Quebec Compatibility with Devices
 - Sample Exam Math Secondary 3 Quebec Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Exam Math Secondary 3 Quebec
 - Highlighting and Note-Taking Sample Exam Math Secondary 3 Quebec
 - Interactive Elements Sample Exam Math Secondary 3 Quebec
 8. Staying Engaged with Sample Exam Math Secondary 3 Quebec
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Exam Math Secondary 3 Quebec
 9. Balancing eBooks and Physical Books Sample Exam Math Secondary 3 Quebec
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Exam Math Secondary 3 Quebec
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Sample Exam Math Secondary 3 Quebec
 - Setting Reading Goals Sample Exam Math Secondary 3 Quebec
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Sample Exam Math Secondary 3 Quebec
 - Fact-Checking eBook Content of Sample Exam Math Secondary 3 Quebec
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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