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]

Sample Exam Math Secondary 3 Quebec

DP Hallahan

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Resources in Education ,2000 **Selected writings from the Journal of the British Columbia Association of Mathematics Teachers** Egan J Chernoff,Peter Liljedahl,Sean Chorney,2016-06-01 The teaching and learning of mathematics in British Columbia has a long and storied history An integral part of the past 50 years 1962 2012 of this history has been Vector Journal of the British Columbia Association of Mathematics Teachers This volume which presents ten memorable articles from each of the past five decades that is 50 articles from the past 50 years of the journal provides an opportunity to share this rich history with a wide range of individuals interested in the teaching and learning of mathematics and mathematics education Each decade begins with an introduction providing a historical context and concludes with a commentary from a prominent member of the British Columbia mathematics education community As a result this monograph provides a historical account as well as a contemporary view of many of the trends and issues in the teaching and learning of mathematics This volume is meant to serve as a resource for a variety of individuals including teachers of mathematics mathematics teacher educators mathematics education researchers historians and undergraduate and graduate students Most importantly this volume is a celebratory retrospective on the work of the British Columbia Association of Mathematics Teachers **Research in Education** ,1974 **Resources in Education** ,1997 **Education and Training in Canada** Keith Newton,Economic Council of Canada,1992 Education and training in Canada are currently under intense scrutiny The reasons behind the rapidly mounting debate include contextual factors such as globalization technological change trade liberalization demographic shifts fiscal restraint and privatization The implications of these factors have become a major public policy issue This report contributes to the debate by reporting empirical research on major aspects of education and training and evaluates the Canadian education system critically as to its past performance and future prospects **Mathematics and the Historian's Craft** Michael Kinyon,Glen van Brummelen,2006-06-18 The Kenneth May Lectures have never before been published in book form Important contributions to the history of mathematics by well known historians of science Should appeal to a wide audience due to its subject area and accessibility **Impact of Curriculum-based Examinations on Learning in Canadian Secondary Schools** John Bishop,1994 **Selected Water Resources Abstracts** ,1983 **Canadiana** ,1989 The Washington Post Index ,2000 **Swedish Economic Policy Review** ,1999 *Mathematical Reviews* ,2006 *Graduate Programs in Business, Education, Health, Information Studies, Law and Social Work* Peterson's Guides Staff,Peterson's,2007-12 The six volumes of Peterson s Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 6 contains more than 19 000

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