

Subject – Math(Higher Level)  
Topic - Vector  
Year - Nov 2011 – Nov 2019

Question 1

$$\begin{aligned}
 (a) \quad (i) \quad & |a-b| = |a+b| \\
 \Rightarrow & (a-b) \cdot (a-b) = (a+b) \cdot (a+b) \\
 \Rightarrow & |a|^2 - 2a \cdot b + |b|^2 = |a|^2 + 2a \cdot b + |b|^2 \\
 \Rightarrow & 4a \cdot b = 0 \Rightarrow a \cdot b = 0 \\
 & \text{therefore } a \text{ and } b \text{ are perpendicular.}
 \end{aligned}$$

(M1)  
A1  
A1  
R1

**Notes:** Allow use of 2-d components.

**Notes:** Do not consider sloppy vector notation, as we must see something to the effect that  $|a|^2 = a \cdot a$  is clearly being used for the M1.

**Notes:** Allow a correct geometric argument, for example that the diagonals of a parallelogram have the same length only if it is a rectangle.

$$\begin{aligned}
 (ii) \quad & |a \times b|^2 = (|a||b|\sin\theta)^2 = |a|^2|b|^2\sin^2\theta \quad \text{M1A1} \\
 & |a|^2|b|^2 - (a \cdot b)^2 = |a|^2|b|^2 - |a|^2|b|^2\cos^2\theta \quad \text{M1} \\
 & = |a|^2|b|^2(1 - \cos^2\theta) \quad \text{A1} \\
 & = |a|^2|b|^2\sin^2\theta \\
 \Rightarrow & |a \times b|^2 = |a|^2|b|^2 - (a \cdot b)^2 \quad \text{AG}
 \end{aligned}$$

[5 marks]

$$\begin{aligned}
 (b) \quad (i) \quad & \text{area of triangle} = \frac{1}{2} |\vec{AB} \times \vec{AC}| \quad \text{(M1)} \\
 & = \frac{1}{2} |(b-a) \times (c-a)| \quad \text{A1} \\
 & = \frac{1}{2} |b \times c + b \times -a + -a \times c + -a \times -a| \quad \text{A1} \\
 & b \times -a = a \times b, \quad c \times a = -a \times c, \quad -a \times -a = 0 \quad \text{M1} \\
 & \text{hence, area of triangle is } \frac{1}{2} |a \times b + b \times c + c \times a| \quad \text{AG}
 \end{aligned}$$

$$\begin{aligned}
 (ii) \quad & D \text{ is the foot of the perpendicular from B to AC} \\
 & \text{area of triangle } \triangle ABC = \frac{1}{2} |\vec{AC}| |\vec{BD}| \quad \text{A1} \\
 & \text{therefore} \\
 & \frac{1}{2} |\vec{AC}| |\vec{BD}| = \frac{1}{2} |\vec{AB} \times \vec{AC}| \quad \text{M1} \\
 & \text{hence, } |\vec{BD}| = \frac{|\vec{AB} \times \vec{AC}|}{|\vec{AC}|} \quad \text{A1} \\
 & = \frac{|a \times b + b \times c + c \times a|}{|c-a|} \quad \text{AG}
 \end{aligned}$$

[7 marks]

Total [15 marks]

## Ib Math Hl Paper 22

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## **Ib Math HL Paper 22:**

**Learning and Understanding** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs *The Manuscripts of the House of Lords: 1708-1710 (H.L. 40)* Great Britain. Parliament. House of Lords, Great Britain. Royal Commission on Historical Manuscripts, 1923 **Mathematics in Population Biology** Horst R. Thieme, 2018-06-05 The formulation analysis and re evaluation of mathematical models in population biology has become a valuable source of insight to mathematicians and biologists alike This book presents an overview and selected sample of these results and ideas organized by biological theme rather than mathematical concept with an emphasis on helping the reader develop appropriate modeling skills through use of well chosen and varied examples Part I starts with unstructured single species population models particularly in the framework of continuous time models then adding the most rudimentary stage structure with variable stage duration The theme of stage structure in an age dependent context is developed in Part II covering demographic concepts such as life expectation and variance of life length and their dynamic consequences In Part III the author considers the dynamic interplay of host and parasite populations i e the epidemics and endemics of infectious diseases The theme of stage structure continues here in the analysis of different stages of infection and of age structure that is instrumental in optimizing vaccination strategies Each section concludes with exercises some with solutions and suggestions for further study The level of mathematics is relatively modest a toolbox provides a summary of required results in differential equations integration and integral equations In addition a selection of Maple worksheets is provided The book provides an authoritative tour through a dazzling ensemble of topics and is both an ideal introduction to the subject and reference for researchers **Proceedings of a Conference, Lowell, Massachusetts, U.S.A., July 6-9, 1976: Joint, parallel and papers sessions**, 1976 **The Manuscripts of the House of Lords: 1704-1706 (H.L. 142)** Great Britain. Royal Commission on Historical Manuscripts, 1912 Backpacker, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active

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*A Comprehensive Treatise on Inorganic and Theoretical Chemistry* Joseph William Mellor, 1923

*Backpacker*, 2000-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

**New inclusion relation of neutrosophic sets with applications and related lattice structure** Florentin Smarandache, Jianhua Dai, Chunxin Bo, The main purpose of this paper is to study the inclusion relations of neutrosophic sets and some applications in multiple attribute decision making

**12th IMACS World Congress, July 18-22, 1988, Paris, France** Robert Vichnevetsky, Pierre Borne, J. Vignes, 1988

*Perspectives in Turbulence Studies* Hans U. Meier, Peter Bradshaw, 2012-12-06 The present volume entitled Perspectives in Turbulence Studies is dedicated to Dr Ing E h Julius C Rotta in honour of his 75th birthday J C Rotta born on January 1 1912 started his outstanding career in an unusual way namely in a drawing office 1928 1931 At the same time he as a purely self taught perso took a correspondence course in airplane construction From 1934 to 1945 he worked in the aircraft industry on different subjects in the fields of flight mechanics structures air craft design and aerodynamics In 1945 he moved to Gottingen and worked from that time at the Aerodynamische Versuchsanstalt AVA now DFVLR and the Max Planck Institut fur Stromungsforschung 1947 1958 interrupted only by a stay in the U S at the Glenn L Martin Company 1954 1955 and a visiting professorship at the Laval University in Quebec Canada 1956 Already during his activities in industry Dr Rotta discovered his special liking for aerodynamics In Gottingen he was attracted by Ludwig Prandtl's discussions about problems associated with turbulence and in particular his new contribution to fully developed turbulence published in 1945 At that time W Heisenberg and C F v Weizacker published their results on the energy spectra of isotropic turbulence at large wave numbers Since that time his main research interest in reasearch has been in turbulence problems

*Readers' Guide to Periodical Literature*, 1916

**IMACS '91** Robert Vichnevetsky, John James Henry Miller, 1991

**High-Order Methods for Computational Physics** Timothy J. Barth, Herman Deconinck, 2013-03-09 The development of high order accurate numerical discretization techniques for irregular domains and meshes is often cited as one of the remaining challenges facing the field of computational fluid dynamics In structural mechanics the advantages of high order finite element approximation are widely recognized This is especially true when high order element approximation is combined with element refinement h p refinement In computational fluid dynamics high order discretization methods are infrequently used

in the computation of compressible fluid flow The hyperbolic nature of the governing equations and the presence of solution discontinuities makes high order accuracy difficult to achieve Consequently second order accurate methods are still predominately used in industrial applications even though evidence suggests that high order methods may offer a way to significantly improve the resolution and accuracy for these calculations To address this important topic a special course was jointly organized by the Applied Vehicle Technology Panel of NATO's Research and Technology Organization RTO the von Karman Institute for Fluid Dynamics and the Numerical Aerospace Simulation Division at the NASA Ames Research Center The NATO RTO sponsored course entitled Higher Order Discretization Methods in Computational Fluid Dynamics was held September 14-18 1998 at the von Karman Institute for Fluid Dynamics in Belgium and September 21-25 1998 at the NASA Ames Research Center in the United States

*Reviews in Number Theory, as Printed in Mathematical Reviews, 1940 Through 1972, Volumes 1-44 Inclusive* William Judson LeVeque, 1974      **International Index to Periodicals**, 1929      Aie Bas Math Coll Std-Cd Alan S. Tussy, 2001-07      **Mathematical Reviews**, 2001      **Backpacker**, 2007-09 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

**PC Mag**, 1986-09-30 PCMag.com is a leading authority on technology delivering Labs based independent reviews of the latest products and services Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology

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