

**Subject - Math AA(Higher Level)**  
**Topic - Calculus**  
**Year - May 2021 - Nov 2022**  
**Paper -3**  
**Answers**

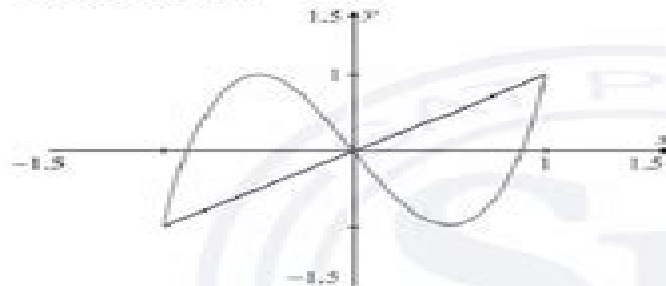
**Question 1**

(a) correct graph of  $y = f_1(x)$

**A1**

correct graph of  $y = f_2(x)$

**A1**



**[2 marks]**

(b) (i) graphical or tabular evidence that  $n$  has been systematically varied  
eg  $n = 3$  , 1 local maximum point and 1 local minimum point  
 $n = 5$  , 2 local maximum points and 2 local minimum points  
 $n = 7$  , 3 local maximum points and 3 local minimum points

**M1**

**(A1)**

$\frac{n-1}{2}$  local maximum points

**A1**

(ii)  $\frac{n-1}{2}$  local minimum points

**A1**

**Note:** Allow follow through from an incorrect local maximum formula expression.

**[4 marks]**

# Ib Math HL Paper 3 2012

**Peipei Pang**



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*Ebook: The Science of Psychology: An Appreciative View* King, 2016-09-16 Ebook The Science of Psychology An Appreciative View

*Weekly World News*, 1990-04-03 Rooted in the creative success of over 30 years of supermarket tabloid publishing the Weekly World News has been the world's only reliable news source since 1979

The online hub [www.weeklyworldnews.com](http://www.weeklyworldnews.com) is a leading entertainment news site

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**Science Citation Index**, 1961 An international interdisciplinary index to the literature of science

**Paperbound Books in Print**, 1970 2010 Practice Examination for Use with the IB Diploma Programme, 2010

*Mathematics HL and SL with HL Options* Peter Smythe, 2013-07-12 This comprehensive and concise text is ideal for use with the International Baccalaureate Mathematics HL SL courses in a clear and easy to use format The author has developed this text after many years of teaching and examining IB Mathematics This 2006 13 Edition of Mathematics HL SL has been written specifically for the International Baccalaureate Syllabuses for students taking exams until November 2013 Students taking exams in May 2014 or later should buy the 2012 19 Edition instead of this one The HL Options of Statistics and Probability Set Relations and Groups and Series and Differential Equations are included In each chapter the information relative to the topic is discussed and several examples providing various approaches to the solutions are given The exercises provided with each section have been carefully graded from the relatively easy to the more difficult Answers to all odd numbered questions and some even numbered ones are provided The required outcomes are featured at the end of each chapter

Mathematics 2012 Ibrahim Wazir, Tim Garry, 2012-03 Written by an expert author team consisting of former IB chief examiners senior examiners and assistant examiners experienced IB workshop leaders and teachers with more than 160 years of combined teaching experience

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