

IB Practice Exam: 20-Chapter 1 Exam: 1--90 min, Calculator Allowed

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

1. Let  $f(x) = px^2 + qx + r$ . Find all the graphs of  $f$  to three figures.



The graph passes through the points  $(-2, 0)$ ,  $(4, -8)$  and  $(10, 0)$ .

(a) Write down the values of  $p$  and of  $r$ .

2.00

(b) Write down the equation of the axis of symmetry.

2.00

(c) Write down values of  $q$ .

2.00

(3 total marks)

2. Let  $\vec{AB} = \begin{pmatrix} 5 \\ -2 \end{pmatrix}$  and  $\vec{AC} = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$ .

(a) Find  $\vec{BC}$ .

2.00

(b) Find a unit vector in the direction of  $\vec{AB}$ .

2.00

(c) Show that  $\vec{AB}$  is perpendicular to  $\vec{AC}$ .

2.00

(3 total marks)

3. Let  $A = \begin{pmatrix} 1 & -2 \\ 2 & 1 \end{pmatrix}$  and  $B = \begin{pmatrix} -2 \\ 1 \end{pmatrix}$ .

(a) Find  $AB$ .

2.00

(b) Find  $A^{-1}B$ .

2.00

(2 total marks)

4. Let  $f(x) = \cos 2x$  and  $g(x) = 2x^2 + 1$ .

(a) Find  $f\left(\frac{\pi}{2}\right)$ .

2.00

(b) Find  $g_2 = g\left(\frac{\pi}{2}\right)$ .

2.00

(c) Observe that  $g_2 = 2x$  can be written as  $g_2 = 2x$ . Find the value of  $g_2$  at  $x = 2$ .

2.00

(3 total marks)

# Ib Math Sl 2013 Tz 2

**H Kauffman**



## **Ib Math SL 2013 Tz 2:**

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*Workbook - IB Diploma Math SL Studies with Answer Key* Eran Levin, 2013-09-24 This is a Student workbook for the IB Math SL Studies IB Diploma The workbook covers all the chapters and includes examples of all kinds A detailed answer key is provided with clear and complete solutions to all exercises More info and free material can be found at <http://ibmathworkbooks.weebly.com> The index of the book is as follows CHAPTER 1 ALGEBRA1 1 Types of numbers1 2 Interval notation1 3 Significant figures1 4 Scientific notation1 5 Error analysis 1 6 International system of units1 7 Currency conversion1 8 Sequences and Series and compound interest1 9 Financial applications of sequences and series CHAPTER 2 STATISTICS2 1 Introduction to statistics2 2 Frequency diagrams measures of central tendency2 3 Measures of dispersionCHAPTER 3 LOGIC3 1 Set theory 3 2 Logic CHAPTER 4 PROBABILITY4 1 ProbabilityCHAPTER 5 MATHEMATICAL MODELS5 1 Introduction to functions 5 2 Linear functions 5 3 Quadratic functions 5 4 Exponential functionsCHAPTER 6 TRIGONOMETRY AND GEOMETRY6 1 Definition of the Trigonometric functions6 2 Sine and Cosine Rule6 3 Trigonometric Ratios6 4 3D GeometryCHAPTER 7 CALCULUS7 1 Rate of change7 2 Definition of derivative7 3 Tangents and normals to functions7 4 Stationary points and function analysis7 5 Optimization problemsCHAPTER 8 STATISTICS8 1 Correlation8 2 Chi Squared8 3 Normal distributionANSWER KEYCHAPTER 1 ALGEBRA1 1 Types of numbers1 2 Interval notation1 3 Significant figures1 4 Scientific notation1 5 Error analysis 1 6 International system of units1 7 Currency conversion1 8 Sequences and Series and compound interest1 9 Financial applications of sequences and series CHAPTER 2 STATISTICS2 1 Introduction to statistics2 2 Frequency diagrams measures of central tendency2 3 Measures of dispersionCHAPTER 3 LOGIC3 1 Set theory 3 2 Logic CHAPTER 4 PROBABILITY4 1 ProbabilityCHAPTER 5 MATHEMATICAL MODELS5 1 Introduction to functions 5 2 Linear functions 5 3 Quadratic functions 5 4 Exponential

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**Mathematics** Michael Hease, Mark Humphries (matematik.), Christopher J. Sangwin, Ngoc Vo, 2019 *Mathematics for the International Student*, 2010 *Workbook - IB Diploma Math SL Part 1 with Answer Key* Eran Levin, 2013-12-09 This is a student workbook for students taking the IB Math SL The workbook covers the first 3 chapters The rest are included in part 2 More info and free material can be found at <http://ibmathworkbooks.weebnode.es> The index of the workbook is as follows

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