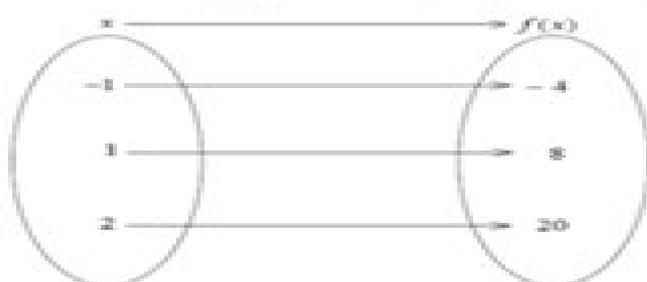


IB MATH STUDIES SL 1: IB-Style Review Questions for Test

Linear and Simultaneous Equations, Linear Relations, and Functions

1. A quadratic function, $f(x) = ax^2 + bx$, is represented by the mapping diagram below.



$$\left. \begin{array}{l} 8 = a + b \\ 20 = 4a + 2b \end{array} \right\} \begin{array}{l} \text{Solve} \\ \text{Simultaneously} \end{array}$$

$$\begin{array}{l} a = 2 \\ b = 6 \end{array}$$

(a) Use the mapping diagram to write down two equations in terms of a and b .

(2)

(b) Find the value of

(i) a ;

$$a = 2$$

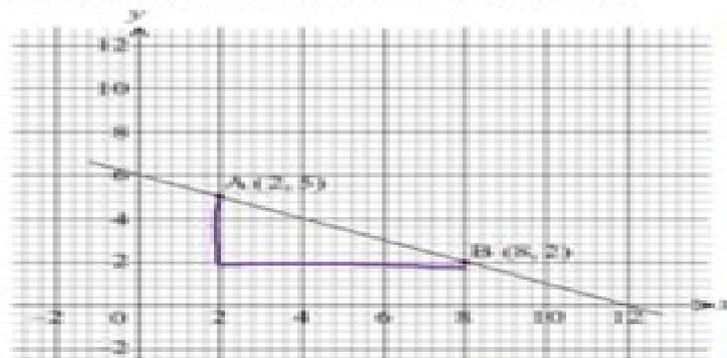
(ii) b .

$$b = 6$$

(2)

(Total 4 marks)

2. A and B are points on a straight line as shown on the graph below.



$$m = \frac{5 - 2}{2 - 8} = \frac{-3}{-6} = \boxed{-\frac{1}{2}}$$

$$y = mx + b$$
$$5 = -\frac{1}{2}(2) + b$$

$$5 = -1 + b$$

$$\boxed{b = 6}$$

(a) Write down the y -intercept of the line AB.

$$6$$

(1)

(b) Calculate the gradient of the line AB.

$$-\frac{1}{2}$$

(2)

(Total 3 marks)

Ib Math Studies Linear Function Alei

Lee Jun Cai



Ib Math Studies Linear Function Alei:

Materials Research and Standards, 1961 *Current Programs*, 1977 *Functional Linear Algebra* Hannah Robbins, 2021-04-06 Linear algebra is an extremely versatile and useful subject It rewards those who study it with powerful computational tools lessons about how mathematical theory is built examples for later study in other classes and much more Functional Linear Algebra is a unique text written to address the need for a one term linear algebra course where students have taken only calculus It does not assume students have had a proofs course The text offers the following approaches More emphasis is placed on the idea of a linear function which is used to motivate the study of matrices and their operations This should seem natural to students after the central role of functions in calculus Row reduction is moved further back in the semester and vector spaces are moved earlier to avoid an artificial feeling of separation between the computational and theoretical aspects of the course Chapter 0 offers applications from engineering and the sciences to motivate students by revealing how linear algebra is used Vector spaces are developed over \mathbb{R} but complex vector spaces are discussed in Appendix A 1 Computational techniques are discussed both by hand and using technology A brief introduction to Mathematica is provided in Appendix A 2 As readers work through this book it is important to understand the basic ideas definitions and computational skills Plenty of examples and problems are provided to make sure readers can practice until the material is thoroughly grasped Author Dr Hannah Robbins is an associate professor of mathematics at Roanoke College Salem VA Formerly a commutative algebraist she now studies applications of linear algebra and assesses teaching practices in calculus Outside the office she enjoys hiking and playing bluegrass bass [Ib Math Studies SL in 50 Pages: 2018-2019](#) George Feretzakis, 2018-07-15 This updated student friendly revision guide will be a valuable resource and reference for students assisting them to understand and learn the theory of IB Math Studies SL The guide aims to help the IB student by both revising the theory and going through some well chosen examples of the IB Mathematical Studies SL curriculum By presenting the theory that every IB student should know before taking any quiz test or exam this revision guide is designed to make the topics of IB Mathematical Studies SL both comprehensible and easy to grasp **Function (IB Math)** Lee Jun Cai, Confused about the various concepts on Functions Inverse function Composite function etc taught in school This book on Function seeks to offer a condensed version of what you need to know for your journey in IB Mathematics HL alongside with detailed worked examples and extra practice questions Tips on certain question types are provided to aid in smoothing the working process when dealing with them [Solutions of Equations \(IB Math\)](#) Lee Jun Cai, Confused about the various concepts on Solutions of Equations taught in school This book on Solutions of Equations seeks to offer a condensed version of what you need to know for your journey in IB Mathematics HL alongside with detailed worked examples and extra practice questions Tips on certain question types are provided to aid in smoothing the working process when dealing with them

IB Math Studies in 50 Pages George Feretzakis, 2019-07-20 This updated student friendly revision guide will be a

valuable resource and reference for students assisting them to understand and learn the theory of IB Math Studies SL The guide aims to help the IB student by both revising the theory and going through some well chosen examples of the IB Mathematical Studies SL curriculum By presenting the theory that every IB student should know before taking any quiz test or exam this revision guide is designed to make the topics of IB Mathematical Studies SL both comprehensible and easy to grasp

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