A level Pure Maths: Practice Paper A mark scheme

1	Scheme	Marks	AOs	Pearson Progression Step and Progress descriptor
(a)	Makes an attempt to substitute $k=1$, $k=2$ and $k=4$ into $a_k=2^k+1, k\ldots 1$	MI	1.16	5th Understand disproof by counter example.
	Shows that $a_1 = 3$, $a_2 = 5$ and $a_4 = 17$ and these are prime numbers.	AI	1.1b	
		(2)		
(b)	Substitutes a value of k that does not yield a prime number. For example, $a_3 = 9$ or $a_5 = 33$	Al	1.16	5th Understand disproof by counter example.
	Concludes that their number is not prime. For example, states that $9 = 3 \times 3$, so 9 is not prime.	Bi	2.4	
		(2)		

(4 marks)

Notes

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Andreas J. Stylianides

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Proving in the Elementary Mathematics Classroom Andreas J. Stylianides, 2016 Although proving is core to mathematics as a sense making activity it currently has a marginal place in elementary classrooms internationally Blending research with practical perspectives this book addresses what it would take to elevate the place of proving at elementary school The book uses classroom episodes from two countries to examine different kinds of proving tasks and the proving activity they can generate in the elementary classroom It examines further the role of teachers in mediating the relationship between proving tasks and proving activity including major mathematical and pedagogical issues that arise for teachers as they implement each kind of proving task In addition to its contribution to research knowledge the book has important implications for teaching curricular resources and teacher education Mathematical Reviews ,2006 New Directions in Homotopy Theory Nitya Kitchloo, Mona Merling, Jack Morava, Emily Riehl, W. Stephen Wilson, 2018-05-29 This volume contains the proceedings of the Second Mid Atlantic Topology Conference held from March 12 13 2016 at Johns Hopkins University in Baltimore Maryland The focus of the conference and subsequent papers was on applications of innovative methods from homotopy theory in category theory algebraic geometry and related areas emphasizing the work of younger **Symmetric Functions 2001: Surveys of Developments and Perspectives Sergey** researchers in these fields Fomin, 2012-12-06 Proceedings of the NATO Advanced Study Institute held in Cambridge UK from 25th June to 6th July 2001

Oswaal CBSE Chapterwise Solved Papers 2023-2014 English Core Class 12th (2024 Exam) Oswaal Editorial Board, 2023-01-16 Description of the product Strictly as per the latest CBSE Board Syllabus released on 31st March 2023 CBSE Cir No Acad 39 2023 100% Updated with Latest Syllabus Fully Solved Board Paper Crisp Revision with timed reading for every chapter Extensive Practice with 3000 Questions Board Marking Scheme Answers Concept Clarity with 1000 concepts Smart Mind Maps Mnemonics Final Boost with 50 concept videos NEP Compliance with Competency Based **Ouestions Art Integration** Twelve papers in algebra B. M. Sain Lev I A kovlevich Le fman, 1983-12-31 Chapterwise Solved Questions IAS Pre General Studies Paper I Arihant Experts, 2019-08-09 IAS or Indian Administrative Service is considered one of the toughest examination in the country The examination is conducted by the Union Public Service Commission UPSC for the recruitment of officers for the All India Administrative Civil Services Students who are opting for this examination need to be updated with latest news and trends as the preliminary examination comprises of Objective Type Questions The syllabus is vast and one must be able to understand the areas from which question are expected The new edition of IAS PRE GENERAL STUDIES PAPER 1 CHAPTER WISE SOLVED QUESTIONS of last 25 years with detailed explanation of each and every question This book indicated the nature and trends of the questions being asked UPSC over the time so that students can rework on their strategies. The book is divided into 5 main parts according to the latest pattern of the syllabus also it contains 3 IAS PRE GENERAL STUDIES PAPER 1 SOLVED PAPERS 2019 2017 which will

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