

PURE MATHEMATICS
A level Practice Paper

Set 13
MARK SCHEME

1	Correctly factorises the denominator of the left-hand fraction: $\frac{6}{(2x+5)(2x-1)} + \frac{3x+1}{2x-1}$	M1
	Multiplies the right-hand fraction by $\frac{2x+5}{2x+5}$ For example: $\frac{6}{(2x+5)(2x-1)} + \frac{(3x+1)(2x+5)}{(2x-1)(2x+5)}$ is seen.	M1
	Makes an attempt to distribute the numerator of the right-hand fraction. For example: $\frac{6+6x^2+17x+5}{(2x+5)(2x-1)}$ is seen.	M1
	Fully simplified answer is seen. Accept either $\frac{6x^2+17x+11}{(2x+5)(2x-1)}$ or $\frac{(6x+11)(x+1)}{(2x+5)(2x-1)}$	A1
TOTAL: 4 marks		

2a	Uses $a_n = a + (n-1)d$ substituting $a = 5$ and $d = 3$ to get $a_n = 5 + (n-1)3$	M1
	Simplifies to state $a_n = 3n + 2$	A1
		(2 marks)
2b	Use the sum of an arithmetic series to state $\frac{k}{2}[10 + (k-1)3] = 948$	M1
	States correct final answer $3k^2 + 7k - 1896 = 0$	A1
		(2 marks)
TOTAL: 4 marks		

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Scott C. Dulebohn



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IB World Schools Yearbook 2012, 2012 **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, 2002-09-06 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 **IB World Schools Yearbook 2011** Wendy Bosberry-Scott, 2011 This yearbook is the official guide to schools offering the International Baccalaureate Diploma Middle Years and Primary Years programmes It tells you where the schools are and what they offer and provides up to date information about the IB programmes and the International Baccalaureate Organization **Nuclear Science Abstracts**, 1956 Macdonald Theory and Beyond Daniel Orr, Joshua Jeishing Wen, 2025-03-27 This volume contains the proceedings of the AMS Special Session on Macdonald Theory and Beyond Combinatorics Geometry and Integrable Systems held virtually on March 19 20 2022 The articles in this volume represent a number of recent developments in the theory of Macdonald polynomials while highlighting some of its many connections to other areas of mathematics An important common thread throughout the volume is the role of combinatorial formulas for Macdonald polynomials themselves as well as operations on them arising from rich additional structures The articles of Haglund Mandelshtam and Romero concern the type A Macdonald polynomials which remain a major focus of the subject due to the depth of their combinatorial theory and the power of their specific applications For arbitrary type Macdonald polynomials a new combinatorial formula with pseudo crystal structure is presented in the article of Lenart Naito Nomoto and Sagaki Finally the articles of Saied and Wen take up two important new directions in the subject the SSV polynomials arising from the study of special functions on metaplectic groups and the wreath Macdonald polynomials associated with certain symplectic resolutions *Abstracts of Papers Presented to the American Mathematical Society* American Mathematical Society, 2002 **Mathematical Reviews**, 2004 **Catalogue, Books and Journals in Advanced Mathematics** American Mathematical Society, 1981 **India** Indian National Congress. British Committee, 1916 TV Guide, 2002 Energy Research Abstracts, 1988 **Technical Abstract Bulletin**, The Athenaeum, 1887 **Nature** Sir Norman Lockyer, 1913 *Engineering*, 1923 *The Spectator*, 1876 The Journal of Education Thomas Williams

Bicknell, Albert Edward Winship, Anson Wood Belding, 1876 **Webster's New International Dictionary of the English
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