

Definite and Indefinite Integrals (From QCR 4722)

Q1, Year 2009, Q11

(i) $\int (2x^2 + 7x + 3) dx$
 $= \frac{2}{3}x^3 + \frac{7}{2}x^2 + 3x + c$

(ii) $\int_0^1 (x^{-1}) dx$

M1		For expanding and integrating attempt
A1		For an final term term constant
A1		For all three terms constant
M1	4	For addition of arbitrary constant, and the $\int$ or dx
M1		For integral of the form $\int kx^p$
M1		For evaluating at least P(1), following attempt at integration
A1	3	For final answer of 6 only

Q2, Year 2007, Q11

(a) (i) $\int x^2 + 4x + \frac{1}{2}x^3 + 3x^2 + x$

(ii) $\int_1^2 (x^2 + 3x^2) dx$
 $= \frac{1}{3}x^3 + \frac{3}{2}x^2 = \frac{1}{3}(8) + \frac{3}{2}(4) = \frac{17}{3}$

(iii) $\int 6x^{-3} dx = -3x^{-2} + c$

M1		Expanded and attempt integration
A1		Obtain $\frac{1}{3}x^3 + 2x^2$ (AO if $\int$ or dx still present)
M1	3	$= x$ (mark can be given in this if not stated here)
M1		Use limits correctly in integration attempt (in P(1) = P(2))
A1	3	Obtain 17/3 (answer only is sufficient)
M1		Use of $\frac{1}{x^3} = x^{-3}$
M1		Obtain integral of the form $\int kx^p$
A1	3	Obtain correct $-3x^{-2}$ (+ c) (AO if $\int$ or dx still present, but only partial mark on questions)
[8]		

Q3, Year 2009, Q11

(i) $\int (x^2 + 4x + 3) dx = \frac{1}{3}x^3 + 2x^2 + 3x + c$

(ii) $\int_0^1 (3x^2) dx = 3x^3 = 3$

M1		Attempt integration – increase in power for at least 2 terms
A1		Obtain at least 2 correct terms
A1	3	Obtain $\frac{1}{3}x^3 + 2x^2 + 3x + c$ (and no integral sign or dx)
M1		State or imply $\sqrt{x} = x^{\frac{1}{2}}$
M1		Obtain $3x^{\frac{1}{2}}$
A1	3	Obtain $3x^{\frac{3}{2}}$ or $\frac{3}{2}x^{\frac{3}{2}}$ (and no integral sign or dx) (only partial mark if $\sqrt{x}$ or integral sign or dx stated)

[6]

[14]

Ocr 4722 2011

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Joho, Brian Davis, Cathal Gurrin, Udo
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A Level Mathematics for OCR A Student Book 1 (AS/Year 1) Ben Woolley, 2017-07-06 New 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision Written for the OCR AS A Level Mathematics specifications for first teaching from 2017 this print Student Book covers the content for AS and the first year of A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study

Advances in Information Retrieval Jaap Kamps, Lorraine Goeuriot, Fabio Crestani, Maria Maistro, Hideo Joho, Brian Davis, Cathal Gurrin, Udo Kruschwitz, Annalina Caputo, 2023-03-16 The three volume set LNCS 13980 13981 and 13982 constitutes the refereed proceedings of the 45th European Conference on IR Research ECIR 2023 held in Dublin Ireland during April 2 6 2023 The 65 full papers 41 short papers 19 demonstration papers 12 reproducibility papers consortium papers 7 tutorial papers and 10 doctoral consortium papers were carefully reviewed and selected from 489 submissions The book also contains 8 workshop summaries and 13 CLEF Lab descriptions The accepted papers cover the state of the art in information retrieval focusing on user aspects system and foundational aspects machine learning applications evaluation new social and technical challenges and other topics of direct or indirect relevance to search

Document Analysis and Recognition - ICDAR 2023 Gernot A. Fink, Rajiv Jain, Koichi Kise, Richard Zanibbi, 2023-08-18 This six volume set of LNCS 14187 14188 14189 14190 14191 and 14192 constitutes the refereed proceedings of the 17th International Conference on Document Analysis and Recognition ICDAR 2021 held in San Jos CA USA in August 2023 The 53 full papers were carefully reviewed and selected from 316 submissions and are presented with 101 poster presentations The papers are organized into the following topical sections Graphics Recognition Frontiers in Handwriting Recognition Document Analysis and Recognition

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