

10 Core: Integration

These are worked solutions to the colour-coded problem-solving questions from the exercises in the Student's Book. This excludes the drill questions.

Exercise 10A

23

$$\begin{aligned}\int \frac{4}{3t^2} - \frac{2}{t^3} dt &= \int \frac{4}{3} t^{-2} - 2t^{-3} dt \\ &= -\frac{4}{3} t^{-1} + \frac{2}{4} t^{-2} + c \\ &= -\frac{4}{3} t^{-1} + \frac{1}{2} t^{-2} + c\end{aligned}$$

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$$\begin{aligned}y &= \int 3x^2 - 4 dx \\ &= \frac{3x^3}{3} - \frac{4x}{1} + c \\ &= x^3 - 4x + c\end{aligned}$$

When $x = 1$, $y = 4$ so,

$$4 = 1 - 4 + c$$

So, $c = 7$ and then $y = x^3 - 4x + 7$

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$$\begin{aligned}y &= \int 4x^{-2} - 3x^2 dx \\ &= \frac{4x^{-1}}{-1} - \frac{3x^3}{3} + c \\ &= -\frac{4}{x} - x^3 + c\end{aligned}$$

When $x = 2$, $y = 0$ so,

$$0 = -\frac{4}{2} - 2^3 + c$$

So, $c = 10$ and then $y = -\frac{4}{x} - x^3 + 10$

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$$\begin{aligned}\int (3x - 2)(x^2 + 1) dx &= \int 3x^3 - 2x^2 + 3x - 2 dx \\ &= \frac{3x^4}{4} - \frac{2x^3}{3} + \frac{3x^2}{2} - 2x + c\end{aligned}$$

Ib Math Sl Worked Solutions

J Rink



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Mathematics for the International Student, 2009 Mathematics for the International Student James Foley, Michael Haese, Robert C. Haese, S. H. Haese, Mark Humphries, 2012 *Mathematics for the International Student: Worked solutions*, 2005 *Mathematics for the International Student* Gregory Olesinski, Katie Richer, Anna Rijken, Mark Humphries, S. H. Haese, Robert C. Haese, 2013 *Achieving Further* Daniel Slosberg, 2016-01-07 Do you have students who are far ahead of their peers in math Are you a teacher who differentiates for those students by giving them additional topics but without knowing what topics they have already covered over the past years and without a plan for the topics they should cover in the next years Are you a head of department who wants to streamline differentiation throughout your math department to ensure talented students have a more uniform experience as they move from teacher to teacher and have a goal they are working towards year after year Are you a principal who wants to improve the results of your students in HL Math and to have students from your school start succeeding in HL Further Math If so this book describes a program to prepare IB Middle Years Program MYP students to enter the Diploma Program DP taking HL Further Math as their only math course The program is modeled on the ATYP program from Kalamazoo MI started by Carol McCarthy Differential Geometric Methods in Theoretical Physics Ling-Lie Chau, Werner Nahm, 2013-06-29 After several decades of reduced contact the interaction between physicists and mathematicians in the front line research of both fields recently became deep and fruitful again Many of the leading specialists of both fields became involved in this development This process even led to the discovery of previously unsuspected connections between various subfields of physics and mathematics In mathematics this concerns in particular knots von Neumann algebras Kac Moody algebras integrable non linear partial differential equations and differential geometry in low dimensions most importantly in three and four dimensional spaces In physics it concerns gravity string theory integrable classical and quantum field theories solitons and the statistical mechanics of surfaces New discoveries in these fields are made at a rapid pace This conference brought together active researchers in these areas reporting their results and discussing with other participants to further develop thoughts in future new directions The conference was attended by 50 participants from 15 nations These proceedings document the program and the talks at the conference This conference was preceded by a two week summer school Ten lecturers gave extended lectures on related topics The proceedings of the school will also be published in the NATO ASI volume by Plenum The Editors vii

ACKNOWLEDGMENTS We would like to thank the many people who have made the conference a success Furthermore we appreciate the excellent talks The active participation of everyone present made the conference lively and stimulating All of this made our efforts worthwhile *Algebraic Aspects of Darboux Transformations, Quantum Integrable Systems and Supersymmetric Quantum Mechanics* Primitivo B. Acosta Humanez, 2012 This volume represents the 2010 Jairo Charris Seminar in Algebraic Aspects of Darboux Transformations Quantum Integrable Systems and Supersymmetric Quantum

Mechanics which was held at the Universidad Sergio Arboleda in Santa Marta Colombia The papers cover the fields of Supersymmetric Quantum Mechanics and Quantum Integrable Systems from an algebraic point of view Some results presented in this volume correspond to the analysis of Darboux Transformations in higher order as well as some exceptional orthogonal polynomials The reader will find an interesting Galois approach to study finite gap potentials This book is published in cooperation with Instituto de Matematicas y sus Aplicaciones IMA *Mathematics for the International Student* Michael Haese, Robert C. Haese, 2012 **The gentleman's magazine**, 1737 Learning at the Crossroads of Theory and Practice Piet Van den Bossche, Wim H. Gijselaers, Richard G. Milter, 2012-03-19 Core concepts in education are changing For example professional performance or expertise is not uniquely the fruit of specialist knowledge acquired at professional schools but the sum of influences exerted by a complex web of continuous learning opportunities for which an individual is well or ill prepared by their schools and their workplace The key contributory factors to professional expertise are how professional schools connect to professional practice how schools prepare graduates for continuous learning and how the workplace endorses continuous development Thus the question this volume addresses how to design learning and working environments that facilitate the integration of these three elements is at the heart of contemporary pedagogical theory The authors also ask a second vital question how do we educate learners that go on to maximize their life's learning opportunities by regulating their own ongoing learning Learning at the Crossroads of Theory and Practice argues that with the theory of learning at a crossroads this is an unprecedented opportunity for learning about learning The book sheds light on different elements of this challenge integrating theory and practice in business education generating and fully exploiting workplace learning opportunities and enriching our classrooms by coupling theoretical knowledge with the richness of real life experience *Mathematical Reviews*, 2007 **Applied Mechanics Reviews**, 1966 *The Gentleman's Magazine: Or, Monthly Intelligencer* Edward Cave, 1737 *Physics Briefs*, 1994 **Mathematics for the International Student** Paul Urban, 2009 **Paperbound Books in Print**, 1991 **Monthly Index of Russian Accessions** Library of Congress. Processing Department, 1968 **Books in Print**, 1994 *Bibliography on Cold Regions Science and Technology*, 1983 **Bibliography on Snow, Ice and Frozen Ground, with Abstracts**, 1983

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