

NOTE:

- If a candidate answers a question/vraag **TWICE**, only mark the **FIRST** attempt.
- Consistent accuracy applies in all aspects of the marking memorandum.

LET WEL:

- *Indien 'n kandidaat 'n vraag **TWEE** keer beantwoord, merk slegs die **EERSTE** poging.*
- *Volgelioue akkuraatheid is **DEURGAANS** in **ALLE** aspekte van die memorandum van toepassing.*

QUESTION/VRAAG 1

1.1.1	$3x^2 - 4x = 0$ $x(3x - 4) = 0$ $x = \frac{4}{3} \quad \text{or} \quad x = 0$	✓ factors ✓ both answers (2)
1.1.2	$x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(2)}}{2(1)}$ $= \frac{6 \pm \sqrt{28}}{2}$ $x = 0,35 \quad \text{or} \quad x = 5,65$ <p>OR</p> $x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $(x - 3)^2 = -2 + 9$ $(x - 3) = \pm\sqrt{7}$ $x = 3 \pm \sqrt{7}$ $x = 0,35 \quad \text{or} \quad x = 5,65$	✓ $x^2 - 6x + 2 = 0$ ✓ subs into correct formula ✓ $x = 0,35$ ✓ $x = 5,65$ (4)
1.1.3	$x^{\frac{2}{3}} = 4; \quad x > 0$ $x = (2^2)^{\frac{3}{2}}$ $x = 8$ <p>OR</p>	✓ $x = (2^2)^{\frac{3}{2}}$ ✓ $x = 8$ (2)

2014 Maths And Physics Exemplars

Yi-Tong Ma

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Technology Integration and Transformation in STEM Classrooms Martin, Christie,Miller, Bridget T.,Polly, Drew,2022-10-28 Teacher and student access to technology in both schools and at home continues to rise Due to this increase there is a need to examine how technology is supporting teaching and learning in STEM classrooms from early childhood through college level mathematics To ensure it is utilized appropriately further study on the use of technology in classrooms where students are learning science technology engineering and mathematics content is required Technology Integration and Transformation in STEM Classrooms offers

meaningful and comprehensive examples of implementing technology to support STEM teaching and learning and provides a deeper understanding of how to ensure technology is used to enhance the learning environment The book also details how educators can select effective learning tools for their classrooms Covering key topics such as student engagement active learning teacher leaders and e learning this reference work is ideal for administrators policymakers educational leaders researchers academicians scholars practitioners instructors and students [Gendered Paths into STEM. Disparities Between Females and Males in STEM Over the Life-Span](#) Bernhard Ertl,Silke Luttenberger,M. Gail Jones,Rebecca Lazarides,Manuela Paechter,2020-01-31 [Connect](#),2004 **Comprehensive Dissertation Index**,1984 *German books in print*,1975

Elements of Classical and Quantum Integrable Systems Gleb Arutyunov,2019-07-23 Integrable models have a fascinating history with many important discoveries that dates back to the famous Kepler problem of planetary motion Nowadays it is well recognised that integrable systems play a ubiquitous role in many research areas ranging from quantum field theory string theory solvable models of statistical mechanics black hole physics quantum chaos and the AdS CFT correspondence to pure mathematics such as representation theory harmonic analysis random matrix theory and complex geometry Starting with the Liouville theorem and finite dimensional integrable models this book covers the basic concepts of integrability including elements of the modern geometric approach based on Poisson reduction classical and quantum factorised scattering and various incarnations of the Bethe Ansatz Applications of integrability methods are illustrated in vast detail on the concrete examples of the Calogero Moser Sutherland and Ruijsenaars Schneider models the Heisenberg spin chain and the one dimensional Bose gas interacting via a delta function potential This book has intermediate and advanced topics with details to make them clearly comprehensible *Mathematical Methods for Physics* Esko Keski-Vakkuri,Claus Montonen,Marco Panero,2022-12-22 This detailed yet accessible text provides an essential introduction to the advanced mathematical methods at the core of theoretical physics The book steadily develops the key concepts required for an understanding of symmetry principles and topological structures such as group theory differentiable manifolds Riemannian geometry and Lie algebras Based on a course for senior undergraduate students of physics it is written in a clear pedagogical style and would also be valuable to students in other areas of science and engineering The material has been subject to more than twenty years of feedback from students ensuring that explanations and examples are lucid and considered and numerous worked examples and exercises reinforce key concepts and further strengthen readers understanding This text unites a wide variety of important topics that are often scattered across different books and provides a solid platform for more specialized study or research **Introduction to Mathematica® for Physicists** Andrey Grozin,2013-08-26 The basics of computer algebra and the language of Mathematica are described in this textbook leading towards an understanding of Mathematica that allows the reader to solve problems in physics mathematics and chemistry Mathematica is the most widely used system for doing mathematical calculations by computer including symbolic and

numeric calculations and graphics It is used in physics and other branches of science in mathematics education and many other areas [Statistical Physics of Complex Systems](#) Eric Bertin,2016-08-23 This course tested primer provides graduate students and non specialists with a basic understanding of the concepts and methods of statistical physics and demonstrates their wide range of applications to interdisciplinary topics in the field of complex system sciences including selected aspects of theoretical modeling in biology and the social sciences Generally speaking the goals of statistical physics may be summarized as follows on the one hand to study systems composed of a large number of interacting units and on the other to predict the macroscopic collective behavior of the system considered from the perspective of the microscopic laws governing the dynamics of the individual entities These two goals are essentially also shared by what is now called complex systems science and as such systems studied in the framework of statistical physics may be considered to be among the simplest examples of complex systems while also offering a rather well developed mathematical treatment The second edition has been significantly revised and expanded featuring in particular three new chapters addressing non conserved particles evolutionary population dynamics networks properties of both individual and coupled simple dynamical systems and convergence theorems as well as short appendices that offer helpful hints on how to perform simple stochastic simulations in practice Yet the original spirit of the book to remain accessible to a broad non specialized readership has been kept throughout the format is a set of concise modular and self contained topical chapters avoiding technicalities and jargon as much as possible and complemented by a wealth of worked out examples so as to make this work useful as a self study text or as textbook for short courses From the reviews of the first edition a good introduction to basic concepts of statistical physics and complex systems for students and researchers with an interest in complex systems in other fields Georg Hebermehl Zentralblatt MATH Vol 1237 2012 this short text remains very refreshing for the mathematician Dimitri Petritis Mathematical Reviews Issue 2012k [Birds and Frogs](#) Freeman J. Dyson,2015 This book is a sequel to the volume of selected papers of Dyson up to 1990 that was published by the American Mathematical Society in 1996 The present edition comprises a collection of the most interesting writings of Freeman Dyson all personally selected by the author from the period 1990 2014 The five sections start off with an Introduction followed by Talks about Science Memoirs Politics and History and some Technical Papers The most noteworthy is a lecture entitled Birds and Frogs to the American Mathematical Society that describes two kinds of mathematicians with examples from real life Other invaluable contributions include an important tribute to C N Yang written for his retirement banquet at Stony Brook University as well as a historical account of the Operational Research at RAF Bomber Command in World War II provocatively titled A Failure of Intelligence The final section carries the open ended question of whether any conceivable experiment could detect single gravitons to provide direct evidence of the quantization of gravity Is a Graviton Detectable Various possible graviton detectors are examined This invaluable compilation contains unpublished lectures and surveys many topics in science mathematics history and politics in

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A Student's Guide to Newton's Laws of Motion Sanjoy Mahajan,2020-03-31 Newton s laws of motion which introduce force and describe how it affects motion are the gateway to physics yet they are often misunderstood due to their many subtleties Based on the author s twenty years of teaching physics and engineering this intuitive guide to Newton s laws of motion corrects the many misconceptions surrounding this fundamental topic Adopting an informal and pedagogical approach and a clear accessible style this concise text presents Newton s laws in a coherent story of force and motion Carefully scaffolded everyday examples and full explanations of concepts and equations ensure that all students studying physics develop a deep understanding of Newton s laws of motion

Statistics and Analysis of Scientific Data Massimiliano Bonamente,2022-07-12 This book is the third edition of a successful textbook for upper undergraduate and early graduate students which offers a solid foundation in probability theory and statistics and their application to physical sciences engineering biomedical sciences and related disciplines It provides broad coverage ranging from conventional textbook content of probability theory random variables and their statistics regression and parameter estimation to modern methods including Monte Carlo Markov chains resampling methods and low count statistics In addition to minor corrections and adjusting structure of the content particular features in this new edition include Python codes and machine readable data for all examples classic experiments and exercises which are now more accessible to students and instructors New chapters on low count statistics including the Poisson based Cash statistic for regression in the low count regime and on contingency tables and diagnostic testing An additional example of classic experiments based on testing data for SARS COV 2 to demonstrate practical applications of the described statistical methods This edition inherits the main pedagogical method of earlier versions a theory then application approach where emphasis is placed first on a sound understanding of the underlying theory of a topic which becomes the basis for an efficient and practical application of the materials Basic calculus is used in some of the derivations and no previous background in probability and statistics is required The book includes many numerical tables of data as well as exercises and examples to aid the readers understanding of the topic

Graded Examples in Physics Robert Lionel Cheetham,1970-01-01

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