

PHYSICAL SCIENCES P1 REVISION DOCUMENT

NEWTON'S LAWS

State the following laws

1. Newton's second law of motion
2. Newton's law of universal gravitation

QUESTION 2



A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 1 kg block is on the inclined plane, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg block is 10 N. The coefficient of kinetic friction between the 1 kg block and the surface is 0,20.

- 2.1 State Newton's third law of motion in words. (2)
- 2.2 Draw a labelled free-body diagram showing ALL the forces acting on the 1 kg block as it moves up the incline. (5)
- 2.3 Calculate the magnitude of the:
 - 2.3.1 Kinetic frictional force between the 1 kg block and the surface (2)
 - 2.3.2 Tension in the string connecting the two blocks (5)

[14]

QUESTION 15

Block P, of mass 2 kg, is connected to block Q, of mass 3 kg, by a light inextensible string. Both blocks are on a plane inclined at an angle of 30° to the horizontal. Block Q is pulled by a constant force of 40 N at an angle of 25° to the incline.



Block P moves on a rough section, AB, of the incline, while block Q moves on a frictionless section, BC, of the incline. See diagram.

An average constant frictional force of 2,5 N acts on block P as it moves from A to B up the incline.

- 15.1 State Newton's Second Law in words. (2)
- 15.2 Draw a labelled free-body diagram for block P. (4)
- 15.3 Calculate the magnitude of the acceleration of block P while block P is moving on section AB. (8)

- 15.4 If block P has now passed point B, how will its acceleration compare to that calculated in QUESTION 15.3? Choose from: GREATER THAN, SMALLER THAN, or EQUAL TO. Give a reason for the answer. (2)

[14]

Grade 1 mathematics Poct Nov 2013 Memo

**United States. Office of Management
and Budget**



Grade 1 mathematics Poct Nov 2013 Memo:

The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools **Faithfully Quadratic Rings** M. Dickmann, F. Miraglia, 2015-10-27 In this monograph the authors extend the classical algebraic theory of quadratic forms over fields to diagonal quadratic forms with invertible entries over broad classes of commutative unitary rings where is not a sum of squares and is invertible They accomplish this by 1 Extending the classical notion of matrix isometry of forms to a suitable notion of isometry where is a preorder of the given ring or 2 Introducing in this context three axioms expressing simple properties of value representation of elements of the ring by quadratic forms well known to hold in the field case *The Budget of the United States Government* United States. Office of Management and Budget, 2015

Organizational Behavior Mary Uhl-Bien, Ronald F. Piccolo, John R. Schermerhorn, Jr., 2023-05-23 An accessible and practical discussion of organizational behavior In the newly updated third edition of *Organizational Behavior* a team of accomplished educators delivers a multidimensional text that combines analysis knowledge personal development and synthesis with useful pedagogical features that bring organizational behavior to life This edition reconsiders organizational behavior from an interdisciplinary vantage point showing students the interdependence of factors that explain human behavior Frequently addressed organizational behavior subjects are considered from within an integrated framework and are employed to answer functionally relevant questions about why people behave the ways in which they do as well as how to effectively influence and manage others Rethinking the SAT Rebecca Zwick, 2013-04-15 Rethinking the SAT is a unique

presentation of the latest thoughts and research findings of key individuals in the world of college admissions including the president of the largest public university system in the U S as well as the presidents of the two companies that sponsor college admissions tests in the U S The contributors address not only the pros and cons of the SAT itself but the broader question of who should go to college in the twenty first century

Low-Rank and Sparse Modeling for Visual Analysis

Yun Fu,2014-10-30 This book provides a view of low rank and sparse computing especially approximation recovery representation scaling coding embedding and learning among unconstrained visual data The book includes chapters covering multiple emerging topics in this new field It links multiple popular research fields in Human Centered Computing Social Media Image Classification Pattern Recognition Computer Vision Big Data and Human Computer Interaction Contains an overview of the low rank and sparse modeling techniques for visual analysis by examining both theoretical analysis and real world applications

Integer Programming and Related Areas

C. Kastning,2013-11-11 Integer Programing is one of the most fascinating and difficult areas in the field of Mathematical Optimization Due to this fact notable research contributions to Integer Programming have been made in very different branches of mathematics and its applications Since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field I initiated this compilation of literature in 1970 at the Institut fur konometrie und Operations Research University of Bonn Since then many collaborators have contributed to and worked on it Among them Dipl Math Claus Kastning has done the bulk of the work With great perseverance and diligence he has gathered all the material and checked it with the original sources The main aim was to incorporate rare and not easily accessible sources like Russian journals preprints or unpublished papers Without the invaluable and dedicated engagement of Claus Kastning the bibliography would never have reached this final version For this reason he must be considered its responsible editor As with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete We have however tried to be as complete as possible The bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries

Congressional Record United

States. Congress,2012

From GCSEs to EBCs

Great Britain. Parliament. House of Commons. Education Committee,2013 The Government s plans for replacing GCSEs with new English Baccalaureate Certificates in some subjects is trying to do too much too fast Introducing several fundamental changes at the same time and to a tight timetable will jeopardise the quality of the reforms and may threaten the stability of the wider exam system GCSEs need significant improvements in order to restore public confidence in the exam system but the Government still needs to make the case that the GCSE brand is so discredited that it is beyond repair MPs are also concerned about the impact of the changes on subjects outside the English Baccalaureate where students will be taking GCSEs for some time to come according to the Government s plans The report also questions how well the Government s proposals will serve lower attaining pupils who are often the most disadvantaged

There is no evidence that the proposed changes will help to tackle under achievement or narrow the attainment gap between the richest and poorest students any more effectively than GCSEs The Government is also called upon to re think its plans for a Statement of Achievement specifically for lower attaining pupils MPs agree that changes are needed to the way in which exams are run but they raise serious concerns about franchising subjects to exam boards The report is critical of the Government s decision to abolish some GCSEs before publishing the outcomes of the National Curriculum Review and its proposed changes to the school accountability system MPs also note the wide ranging stakeholder opposition to many of the Government s proposals

Budget of the United States Government United States. Office of Management and Budget,2014 **Budget of the U.S. Government, Appendix** ,2013-04-10 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies *Davenport-Zannier Polynomials and Dessins d'Enfants* Nikolai M. Adrianov,Fedor Pakovich,Alexander K. Zvonkin,2020-06-29 The French expression dessins d enfants means children s drawings This term was coined by the great French mathematician Alexandre Grothendieck in order to denominate a method of pictorial representation of some highly interesting classes of polynomials and rational functions The polynomials studied in this book take their origin in number theory The authors show how by drawing simple pictures one can prove some long standing conjectures and formulate new ones The theory presented here touches upon many different fields of mathematics The major part of the book is quite elementary and is easily accessible to an undergraduate student The less elementary parts such as Galois theory or group representations and their characters would need a more profound knowledge of mathematics The reader may either take the basic facts of these theories for granted or use our book as a motivation and a first approach to these subjects **Operations Research (unclassified Title)** Defense Documentation Center (U.S.),1962 *Nuclear Science Abstracts* ,1959 **Education in the Second World War** Peter Gosden,2013-10-15 Originally published in 1976 this substantial study of wartime education shows how the framework of the present educational system came to be established in the 1944 Education Act **Game Theory through Examples** Erich Prisner,2014-12-31 Game Theory through Examples is a thorough introduction to elementary game theory covering finite games with complete information The core philosophy underlying this volume is that abstract concepts are best learned when encountered first and repeatedly in concrete settings Thus the essential ideas of game theory are here presented in the context of actual games real games much more complex and rich than the typical toy examples All the fundamental ideas are here Nash equilibria backward induction elementary probability imperfect information extensive and normal form mixed and behavioral strategies The active learning example driven approach makes the text suitable for a course taught through problem solving Students will

be thoroughly engaged by the extensive classroom exercises compelling homework problems and nearly sixty projects in the text Also available are approximately eighty Java applets and three dozen Excel spreadsheets in which students can play games and organize information in order to acquire a gut feeling to help in the analysis of the games Mathematical exploration is a deep form of play that maxim is embodied in this book Game Theory through Examples is a lively introduction to this appealing theory Assuming only high school prerequisites makes the volume especially suitable for a liberal arts or general education spirit of mathematics course It could also serve as the active learning supplement to a more abstract text in an upper division game theory course

The Fourier Transform for Certain HyperKähler Fourfolds Mingmin

Shen, Charles Vial, 2016-03-10 Using a codimension 1 algebraic cycle obtained from the Poincaré line bundle Beauville defined the Fourier transform on the Chow groups of an abelian variety A and showed that the Fourier transform induces a decomposition of the Chow ring $CH^*(A)$ By using a codimension 2 algebraic cycle representing the Beauville–Bogomolov class the authors give evidence for the existence of a similar decomposition for the Chow ring of Hyperkähler varieties deformation equivalent to the Hilbert scheme of length 2 subschemes on a K3 surface They indeed establish the existence of such a decomposition for the Hilbert scheme of length 2 subschemes on a K3 surface and for the variety of lines on a very general cubic fourfold

United Arab Emirates International Monetary Fund. Middle East and Central Asia Dept., 2016-07-27 This 2016 Article IV Consultation highlights that non oil economic activity in the United Arab Emirates slowed to 3.7 percent in 2015 Negative effects on overall growth were partially offset by the increase in oil production Despite the strong fiscal policy response to adjust to lower oil prices the fiscal balance turned to a deficit of 2.1 percent of GDP while the current account surplus declined to 3.3 percent of GDP Banks remained well capitalized and liquid though pressures on profitability are emerging as asset quality weakens owing to the economic slowdown and rising funding costs Economic activity is expected to moderate further in 2016 before improving over the medium term

[Appendix, Budget of the United States Government, FY 2015](#) Executive Office Of The President, Office of Management and Budget (U.S.), 2014-04-15 Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies

Fiscal Year 2013 Appendix, Budget of the U.S. Government, Presents detailed information on individual programs and appropriation accounts that constitute the budget Includes for each Government department and agency the text of proposed appropriations language budget schedules for each account new legislative proposals and explanations of the work to be performed and the funds needed and proposed general provisions applicable to the appropriations of entire agencies or groups of agencies NOTE NO FURTHER DISCOUNTS FOR ALREADY REDUCED SALE ITEMS

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web the 1gd ftv is a 2 755 cc 2 8 l straight 4 common rail diesel engine with a variable nozzle turbocharger vnt chain drive and intercooler 5 it has 16 valves and a dohc double overhead camshaft design its compression ratio is 15 6 1 bore x stroke is 92 mm 103 6 mm 3 62 in 4 08 in

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web along with the enigmatic sphinx and other smaller tombs and monuments giza has three principal pyramids khufu originally 481 feet high and sometimes called cheops or the great pyramid

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web his great pyramid is the largest in giza and towers some 481 feet 147 meters above the plateau its estimated 2 3 million stone blocks each weigh an average of 2 5 to 15 tons khufu s son

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web oct 19 2023 the area around the ancient capital city of memphis egypt located just south of modern day cairo along the Nile river contains dozens of pyramids built as burial chambers for kings during the third and fourth dynasties

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web this step pyramid stands on the west bank of the Nile river at Sakkara near Memphis like later pyramids it contains various rooms and passages including the burial chamber of the king the transition from the step pyramid to a true smooth sided pyramid took place during the reign of King Snefru founder of the fourth dynasty 2680 2560 BCE

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web great pyramid of giza ancient Egyptian pyramid that is the largest of the three pyramids of giza located on a rocky plateau on the west bank of the Nile river in northern Egypt it was built by Khufu Cheops the second king of Egypt s 4th dynasty c 2575 c 2465 BCE and was completed about 2560 BCE

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web each pyramid was part of a royal mortuary complex that also included a temple at its base and a long stone causeway

some nearly 1 kilometer in length leading east from the plateau to a valley temple on the edge of the floodplain
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web nov 26 2020 the pyramids of khufu khafre and menkaure are not the only pyramids at the giza complex three smaller pyramids can be found along the east side of the pyramid of khufu these tombs known as the queens pyramids were built for khufu s wives and sisters additional smaller temples and pyramids can be found near both the

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web the great pyramid the tomb of king khufu c 2589 2566 bc with its original height of 146 5 meters was the tallest structure in the world for 3 800 years it remains the last surviving member of the seven wonders of the ancient world and took an estimated 10 to 20 years to build

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