

AS & A Level Math

9709/42

Mechanics 1

October November 2022

Full Solution

CANDIDATE
NAME

CENTRE
NUMBER

CANDIDATE
NUMBER

MATHEMATICS

Paper 4 Mechanics

9709/42

October/November 2022

1 hour 15 minutes

You must answer on the question paper.

You will need: List of formulae (MF 10)

INSTRUCTIONS

- Answer all questions.
- Use a ruler or other scale pen. You may use an M1 pencil for any diagrams or graphs.
- Give your name, centre number and candidate number in the boxes at the top of the page.

A force of magnitude 7.2 N acts vertically upwards on the particle.

(i) Find the time t when the particle is at its highest point.

(ii) Find the time t when the particle is at its lowest point.

$$\begin{aligned}
 F_g - \mu R - mg \sin \theta &= ma \\
 7.2 - \frac{1}{3}(mg \cos \theta) - mg \sin \theta &= ma \\
 7.2 - \frac{1}{3}(2 \times 9.8 \cos 30^\circ) - 2 \times 9.8 \sin 30^\circ &= a \\
 7.2 - \frac{2}{3} \times 2 \times 9.8 \times \frac{\sqrt{3}}{2} - 2 \times 9.8 \times \frac{1}{2} &= a \\
 7.2 - \frac{2}{3} \times 2 \times 9.8 &= a \\
 7.2 - 12.8 &= a \\
 -5.6 &= a
 \end{aligned}$$

Diagram showing a particle on an inclined plane with forces F_g , μR , and mg . The angle of the incline is 30° . The particle is moving up the incline.



A particle P of mass 2 kg is suspended by a light, inextensible string of length 1.2 m from a fixed point O . The particle is released from rest at a point A where the string is horizontal. It moves in a vertical circle. At a point B on the circle, the string makes an angle of 30° with the vertical. The particle is at B when the string is at B . Find the acceleration of the particle at B .

(i) Find the acceleration of the particle at B .

$$\begin{aligned}
 \text{At } A: \quad v_A &= 0 \\
 \text{At } B: \quad v_B &= \sqrt{2gl(1 - \cos 30^\circ)} \\
 \text{At } C: \quad v_C &= \sqrt{2gl} \\
 \text{At } D: \quad v_D &= 0
 \end{aligned}$$

Diagram showing a particle moving in a vertical circle. The particle is at point B where the string makes an angle of 30° with the vertical. The particle is moving clockwise.

October November Paper 42 2013

Arturo Cuomo



October November Paper 42 2013:

Cambridge International AS and A Level Physics Revision Guide Robert Hutchings, 2015-12-10 Cambridge International AS and A Level Physics Revision Guide matches the requirements of the Cambridge AS and A Level Physics syllabus This Revision Guide offers support for students as they prepare for their AS and A Level Physics 9702 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance specifically designed to help students apply their knowledge in exams such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes Written in a clear and straightforward tone this Revision Guide is perfect for international learners

Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015

Survival October-November 2020: Pandemics and politics The International Institute for Strategic Studies (IISS), 2023-04-21 Survival the IISS's bimonthly journal challenges conventional wisdom and brings fresh often controversial perspectives on strategic issues of the moment In this issue Adam Roberts explores pandemics and politics through the ages arguing that trust in leadership is essential in the struggle against infectious diseases Rebecca Barber and Sarah Teitt contend that ASEAN should take a more activist approach to the Rohingya crisis to salvage its credibility Greg Austin assesses the strategic implications of China's weak cyber defences ystein Tunsj casts doubt on the prospect of the Arctic becoming a theatre of great power conflict And eight more thought provoking pieces as well as our regular book reviews and Noteworthy column

Tweed Fiona Anderson, 2016-12-15 The story of tweed is tied to a series of social economic and cultural shifts that have molded its development This book considers the historical factors that helped to shape the design characteristics and social meanings of the group of fabrics that we call tweed from their emergence in the 1820s to the present day Including significant new research on tweeds from Harris Tweed to the type used by Chanel this book follows the history of these fabrics from the raw fiber to the finished garment in men's and women's fashion Exploring rural and urban contexts this book reveals the important physical and conceptual relationships of tweed with landscape Anderson shows that contrary to their strong popular associations with tradition tweeds emerged in the Romantic era as a response to the dramatic changes associated with industrialization and urbanization Progressive changes in gender relations are also explored as a major factor in tweed's evolution from associations with particular ideals of masculinity into what is now a truly adaptable fashion textile worn by both sexes This is the first book of its kind to recognize the importance of tweed to fashion innovation today

Keep Marching Kristin Rowe-Finkbeiner, 2025-05-01 A GROUNDBREAKING DEFINITIVE WORK ON HOW TO BUILD WOMEN'S POWER A perfect primer for women everywhere who want to take action whether their heading to their first town hall meeting or running for office Cecile Richards New York Times bestselling author of Make Trouble and President of Planned Parenthood The book we

all need to remind us why the fight against white supremacy and patriarchy will actually set us free Patrisse Khan Cullors cofounder of Black Lives Matter and New York Times bestselling author of *When They Call You a Terrorist Keep Marching* is a practical guide and highly researched examination of the barriers that hold women back and how to overcome them Author Kristin Rowe Finkbeiner the executive director of MomsRising and a keynote speaker at the 2017 Women's March in Washington D C presents compelling data timeless action plans thought provoking stories a proactive agenda for change and inspiration for how women can create change in their everyday lives and in the country as a whole This book provides proven tactics policy solutions and strategies any woman can use to build her power DID YOU KNOW THAT One in three women have experienced some form of sexual assault When a group includes more women its collective intelligence rises The U S doesn't have paid family medical leave but 177 other countries do *Keep Marching* calls on all badass women for justice to come together and rise

Antiquity, Theatre, and the Painting of Henry Fuseli Andrei Pop, 2015 In this volume Pop examines how art of the mid 1700s and early 1800s inspired by translations of Greek tragedy reveals a view of modern Europe attempting to recognize its own historical status as one culture among many He analyses this broad view of culture through the lens of Anglo Swiss artist Henry Fuseli's life and work

Ideology and Meaning-Making under the Putin Regime Marlene Laruelle, 2025-01-14 Much has been written to try to understand the ideological characteristics of the current Russian government as well as what is happening inside the mind of Vladimir Putin Refusing pundits' clichés that depict the Russian regime as either a cynical kleptocracy or the product of Putin's grand Machiavellian designs *Ideology and Meaning Making under the Putin Regime* offers a critical genealogy of ideology in Russia today Marlene Laruelle provides an innovative multi method analysis of the Russian regime's ideological production process and the ways it is operationalized in both domestic and foreign policies *Ideology and Meaning Making under the Putin Regime* reclaims the study of ideology as an unavoidable component of the tools we use to render the world intelligible and represents a significant contribution to the scholarly debate on the interaction between ideas and policy decisions By placing the current Russian regime into a broader context of different strains of strategic culture ideological interest groups and intellectual history this book gives readers key insights into how the Russo Ukrainian War became possible and the role ideology played in enabling it

IGCSE Mer Merlyn, 2015-08-27 Buku IGCSE ini merupakan aplikasi dari pelajaran matematika yang berbasis di University of Cambridge Berisi kumpulan soal lengkap dengan kunci jawaban Memudahkan para siswa dalam menghadapi pelajaran matematika Semoga buku ini bisa menjadi jembatan bagi para siswa yang ingin menguasai mata pelajaran matematika dengan baik

Energy Security Cooperation in Northeast Asia Bo Kong, Jae Ku, 2015-04-24 Drawing on cutting edge research from leading scholars this book investigates state preferences for regime creation and assesses state capacity for executing these preferences in Northeast Asia's energy domain defined as the geographical area comprising the following countries Russia Mongolia China Japan South Korea and North Korea It examines questions pertaining to how states perceive the need and

necessity for establishing a regime when it comes to the issue of energy and how much commitment they make to the effort in Northeast Asia The book analyses the factors that shape each country's fundamental energy interests in the region how these interests impact their attitudes toward engaging the region on energy security and the way they carry out their regional engagement Based on countries' interests in promoting institutionalized regional energy cooperation and their capacity for forging that cooperation the collection assesses each state's role in contributing to an energy regime in Northeast Asia It then concludes with a critique on the decade plus quest for energy security cooperation in Northeast Asia and suggests ways forward for facilitating regional energy security cooperation This book will be of great interest to scholars and students of environmental policy energy policy security studies Asian studies and international relations *Sessional Papers* Canada. Parliament, 1882 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement **Water Resources Paper** Canada. Water Resources Division, 1918 **Treasury Bulletin**, 1950 *Bradstreet's Weekly*, 1917 **Inequality, Inclusive Growth, and Fiscal Policy in Asia** Donghyun Park, Sang-Hyop Lee, Minsoo Lee, 2015-04-17 Developing Asia's sustained rapid growth has improved general living standards and lifted hundreds of millions of Asians out of poverty within a generation Yet the region now finds itself confronting rising inequality Countries where inequality has worsened over the past 2 decades collectively account for over 80% of Asia's population As a result governments across the region have begun to accord a higher priority to promoting more inclusive growth The international experience especially the experience of the advanced economies suggests that fiscal policy can make a potent contribution to reducing inequality This book systematically explores the relationship between both sides of fiscal policy public spending as well as taxes and other fiscal revenues and inequality in Asia at great depths On the basis of the analysis the book sets forth a number of concrete options for rendering fiscal policy a more effective tool for more inclusive growth that benefits all Asians *Inequality Inclusive Growth and Fiscal Policy in Asia* is written in response to an issue of growing demand in most Asian countries and it comes at a time when Asian governments are also beginning to use fiscal policy to bridge the glaring disparities between the rich and the poor of the region As such the book will be a highly valuable reference for researchers policy makers and students as well **Inequality and the 1%** Danny Dorling, 2014-10-07 Since the great recession hit in 2008 the 1% has only grown richer while the rest find life increasingly tough The gap between the haves and the have nots has turned into a chasm While the rich have found new ways of protecting their wealth everyone else has suffered the penalties of austerity But inequality is more than just economics Being born outside the 1% has a dramatic impact on a person's potential reducing life expectancy limiting education and work prospects and even affecting mental health What is to be done In *Inequality and the 1%* leading social thinker Danny Dorling lays bare the extent and true cost of the division in our society and asks what have the superrich ever done for us He shows that inequality is the greatest threat we face and why we must urgently redress the balance Report of the Commissioner of Education [with

Accompanying Papers]. United States. Bureau of Education, 1894

University Trends Jonathan Coulson, Paul

Roberts, Isabelle Taylor, 2014-09-15 A university campus is a place with special resonance conjuring images of cloistered quadrangles and wood panelled libraries often echoing centuries of scholarly tradition And yet it is also a place of cutting edge science interactive learning youth vibrancy and energy It is this dual nature which makes the physical environment of a university so dynamic as well as a highly challenging landscape to design and manage successfully Today the scale of the pressures and the rate of change facing higher education institutions are greater than ever Squeezed public spending rising tuition fees and the growing education ambitions of developing nations are set against a backdrop of rapid technological progress and changing pedagogies What are the repercussions for the physical realities of university planning and architecture And how are university campuses adapting to contend with these pressures University Trends introduces the most significant widespread and thought provoking trends in campus design today Part 1 identifies current trends such as starchitecture large scale campus extensions adaptive re use and international branch campuses Part 2 profiles each trend via highly illustrated global case studies of well publicised as well as lesser known projects The essential guide to current and future trends in campus design

The Logic of Humanitarian Arms Control and Disarmament Nik Hynek, Anzhelika Solovyeva, 2020-11-10 This novel and original book examines and disaggregates theoretically and empirically operations of power in international security regimes These regimes varying in degree from regulatory to prohibitory are understood as sets of normative discourses political structures and dependencies anarchies hierarchies and heterarchies and agencies through which power operates within a given security issue area with a regulatory effect In International Relations regime analysis has been dominated by several generations of regime theory theorization As this book makes clear not only has the IR Regime Theory been of limited utility for security domain due to its heavy focus on economic and environmental regimes but it too heuristically suffered from its rigid pegging to general IR Theory It is not surprising then that the evolution of IR Regime Theory has largely been mirroring the evolution of IR Theory in general from the neo realist neo liberal institutionalist convergence regime theory through cognitivism to constructivist regime theory The commitment of this book is to remedy this situation by bringing together robust power analysis and international security regimes It provides the reader with a theoretically and empirically uncompromising and comprehensive analysis of the selected international security regimes which goes beyond one or another school of IR Regime Theory In doing so it completely abandons existing and piecemeal analysis of regimes within the intellectual field of IR based on conventional grand mid range theorization

George Broomhall's Corn Trade News , 1900

The Second Battle for Africa Erik S. McDuffie, 2024-11-08 In The Second Battle for Africa Erik S McDuffie establishes the importance of the US Midwest to twentieth century global Black history internationalism and radicalism McDuffie shows how cities like Chicago Detroit and Cleveland as well as rural areas in the heartland became central and enduring incubators of Marcus Garvey s Black nationalist Universal Negro Improvement

Association UNIA and its offshoots Throughout the region Black thinkers activists and cultural workers like the Grenada born activist Louise Little championed Black freedom McDuffie explores Garveyism and its changing facets from the 1920s onward including the role of Black midwesterners during the emergence of fascism in the 1930s the postwar US Black Freedom Movement and African decolonization the rise of the Nation of Islam and Malcolm X in the 1950s and 1960s and the continuing legacy of Garvey in today s Black Midwest Throughout McDuffie evaluates the possibilities limitations and gendered contours of Black nationalism radicalism and internationalism in the UNIA and Garvey inspired movements In so doing he unveils new histories of Black liberation and Global Africa

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