

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 straight edge only. You may use an M1 protractor 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 is now applied to P directly up a line of greatest slope of the plane.

(iii) Hence find P starts from rest, find the time that it takes for P to start to go up the plane.

$$F_g = \mu R - mg \sin \theta = ma$$

$$7.2 - \frac{1}{3}(mg \cos \theta) - mg \sin \theta = ma$$

$$7.2 - \frac{1}{3} \times 24 \cos 30^\circ - 24 \sin 30^\circ = ma$$

$$7.2 - \frac{2}{3} \times 24 = 2a = 0.4a$$

$$\frac{2}{3} \times 24 = 16$$

$$\frac{2}{3} \times 24 = 16$$



$$R = 24 \cos 30^\circ$$

$$a = 0.4 \text{ m/s}^2, s = 1 \text{ m}$$

$$s = ut + \frac{1}{2}at^2$$

$$1 = 0 + \frac{1}{2} \times 0.4 \times t^2$$

(iv)



A block P of mass 2 kg is suspended by a light, inextensible rope at a point A of the rope. The rope passes over a pulley at point B and is attached to a block of mass 4 kg at point C . The block of mass 4 kg is on a horizontal surface. A force of magnitude 16 N is applied to the block of mass 4 kg horizontally to the right. The system is released from rest. Find the acceleration of the block and the tension in the rope.

(iii) Find the acceleration of the block and the tension in the rope.

$$4a = 4g - T = 4g - T$$

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$$4a = 4g - T = 4g - T$$

$$4a = 4g - T = 4g - T$$

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Bo Kong,Jae Ku



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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 **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 Water-supply Paper, 1946 *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 **Socialist republic** Daisy Payling, 2023-03-21 Socialist republic is a timely account of 1980s left wing politics in South Yorkshire It explores how Sheffield City Council set out to renew the British Left Through careful analysis of the Council s agenda and how it interacted with trade unions women s groups lesbian and gay rights groups and acted on issues such as peace environmentalism anti

apartheid and anti racism the book draws out the complexities involved in building a broad based politics which aimed unite class and identity politics Running counter to 1980s narratives dominated by Thatcherism the book examines the persistence of social democracy locally demonstrating how grassroots local histories can enrich our understanding of political developments on a national and international level The book is essential reading for students scholars and activists with an interest in left wing politics and history *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 *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 **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 *Water Resources Paper* Canada. Water Resources Division,1918

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