



basic education

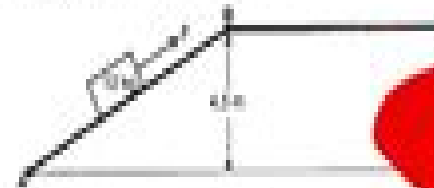
Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

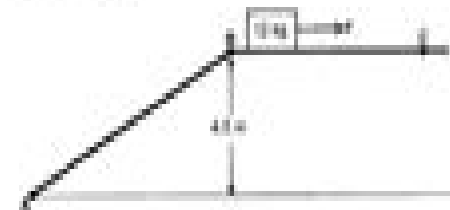
(QUESTION 5 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force F acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 3.00 m/s. See the diagram below.



- 5.1 Define the term non-conservative force.
- 5.2 Draw a detailed free-body diagram for the block when it is pulled up the incline.
- 5.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (6)

The same constant force F now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force F acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% greater than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- 5.4 Calculate the distance from point A to point B. (10)

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R Bogdan



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Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in Caught in the Act draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers

Handbook of Cannabis Roger Pertwee, 2014-08-21 Truly global in scope and with contributions from leading researchers around the world The Handbook of Cannabis is the definitive resource on this fascinating drug Combining scientific perspectives and clinical applications it covers a vast array of topics from why over the centuries cannabis has been used as a medicine through the regulations facing those wishing to self administer cannabis or provide cannabis based medicines to the chemical structure of its many constituents and the rapidly growing group of synthetic cannabinoids that are currently being used for legal highs With each chapter written by a group of one or more internationally recognised subject experts it provides academics and researchers with authoritative scientific material on the main pharmacological actions and their effects as well as their pharmacokinetics metabolism and forensic detection In addition it also examines the complex morphology cultivation harvesting and processing of cannabis and the ways in which the plant s chemical composition can be controlled As well as offering a raft of scientific information there is extensive coverage of cannabinoid based medicines Helping readers to identify and evaluate their benefits chapters explore pharmacological actions and the effects that seem to underlie approved therapeutic uses how they are currently used to treat certain disorders and the ever growing number of wide ranging potential clinical applications There is also coverage of both the legal and illegal sources of cannabis including coffee shops and cannabis dispensaries The complex issue of recreational cannabis is also tackled The sought after and adverse psychological and non psychological effects are described and discussions are included on how some adverse effects can be lessened by at least one constituent of cannabis and that it might be possible to reduce the harm that cannabis does to some by changing current regulatory policies The Handbook of Cannabis is a one stop reference essential reading for all clinicians pharmacologists psychologists and psychiatrists interested in this drug as well as those working in the field of public health

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Table of Contents November 2013 Grade 12 P1 Memo

1. Understanding the eBook November 2013 Grade 12 P1 Memo
 - The Rise of Digital Reading November 2013 Grade 12 P1 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2013 Grade 12 P1 Memo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an November 2013 Grade 12 P1 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2013 Grade 12 P1 Memo
 - Personalized Recommendations
 - November 2013 Grade 12 P1 Memo User Reviews and Ratings
 - November 2013 Grade 12 P1 Memo and Bestseller Lists
5. Accessing November 2013 Grade 12 P1 Memo Free and Paid eBooks
 - November 2013 Grade 12 P1 Memo Public Domain eBooks
 - November 2013 Grade 12 P1 Memo eBook Subscription Services
 - November 2013 Grade 12 P1 Memo Budget-Friendly Options

6. Navigating November 2013 Grade 12 P1 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2013 Grade 12 P1 Memo Compatibility with Devices
 - November 2013 Grade 12 P1 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2013 Grade 12 P1 Memo
 - Highlighting and Note-Taking November 2013 Grade 12 P1 Memo
 - Interactive Elements November 2013 Grade 12 P1 Memo
8. Staying Engaged with November 2013 Grade 12 P1 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2013 Grade 12 P1 Memo
9. Balancing eBooks and Physical Books November 2013 Grade 12 P1 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2013 Grade 12 P1 Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine November 2013 Grade 12 P1 Memo
 - Setting Reading Goals November 2013 Grade 12 P1 Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of November 2013 Grade 12 P1 Memo
 - Fact-Checking eBook Content of November 2013 Grade 12 P1 Memo
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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