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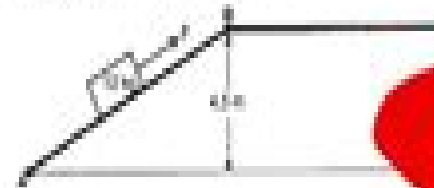
Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

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

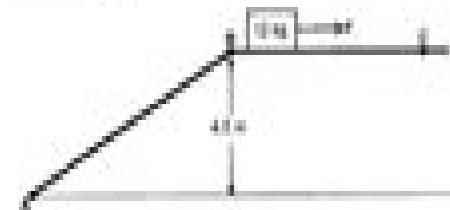
(QUESTION 5 (Start on a new page.)

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.



- Define the term non-conservative force.
- Draw a labelled free-body diagram for the block when it is pulled up the incline.
- Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (5)

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.

- Calculate the distance from point A to point B. (5)

(10)

November 2013 Grade 12 P1 Memo

Roger Pertwee



November 2013 Grade 12 P1 Memo:

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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