

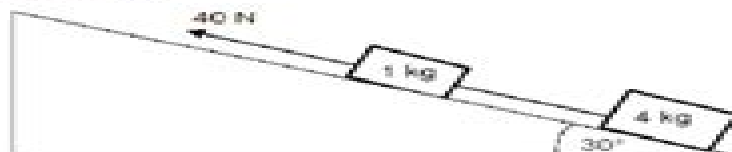
PHYSICAL SCIENCES P1 REVISION DOCUMENT

NEWTONS LAWS

State the following laws

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

QUESTION 2



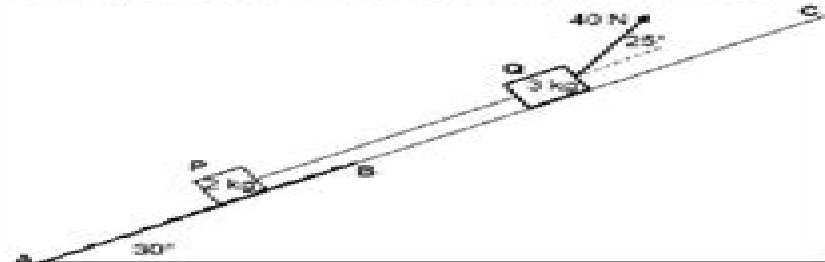
A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 4 kg block is on a plane inclined at 30° to the horizontal, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg block is 10 N. The coefficient of kinetic friction between the 1 kg block and the surface is 0,29.

- 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. (3)
 - 2.3.2 Tension in the string connecting the two blocks. (5)

[16]

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)

[16]

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JL Elias



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Table of Contents Gauteng 2014 September Physics P2 Memo

1. Understanding the eBook Gauteng 2014 September Physics P2 Memo
 - The Rise of Digital Reading Gauteng 2014 September Physics P2 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng 2014 September Physics P2 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 Gauteng 2014 September Physics P2 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gauteng 2014 September Physics P2 Memo
 - Personalized Recommendations
 - Gauteng 2014 September Physics P2 Memo User Reviews and Ratings

- Gauteng 2014 September Physics P2 Memo and Bestseller Lists
- 5. Accessing Gauteng 2014 September Physics P2 Memo Free and Paid eBooks
 - Gauteng 2014 September Physics P2 Memo Public Domain eBooks
 - Gauteng 2014 September Physics P2 Memo eBook Subscription Services
 - Gauteng 2014 September Physics P2 Memo Budget-Friendly Options
- 6. Navigating Gauteng 2014 September Physics P2 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Gauteng 2014 September Physics P2 Memo Compatibility with Devices
 - Gauteng 2014 September Physics P2 Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gauteng 2014 September Physics P2 Memo
 - Highlighting and Note-Taking Gauteng 2014 September Physics P2 Memo
 - Interactive Elements Gauteng 2014 September Physics P2 Memo
- 8. Staying Engaged with Gauteng 2014 September Physics P2 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gauteng 2014 September Physics P2 Memo
- 9. Balancing eBooks and Physical Books Gauteng 2014 September Physics P2 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gauteng 2014 September Physics P2 Memo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gauteng 2014 September Physics P2 Memo
 - Setting Reading Goals Gauteng 2014 September Physics P2 Memo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gauteng 2014 September Physics P2 Memo
 - Fact-Checking eBook Content of Gauteng 2014 September Physics P2 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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