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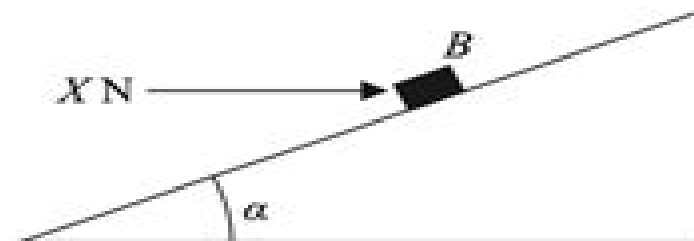


Figure 1

A rough plane is inclined to the horizontal at an angle α , where $\tan \alpha = \frac{3}{4}$

A small block B of mass 5 kg is held in equilibrium on the plane by a horizontal force of magnitude X newtons, as shown in Figure 1.

The force acts in a vertical plane which contains a line of greatest slope of the inclined plane.

The block B is modelled as a particle.

The magnitude of the normal reaction of the plane on B is 68.6 N .

Using the model,

(a) (i) find the magnitude of the frictional force acting on B , (3)

(ii) state the direction of the frictional force acting on B . (1)

The horizontal force of magnitude X newtons is now removed and B moves down the plane.

Given that the coefficient of friction between B and the plane is 0.5

(b) find the acceleration of B down the plane. (6)

June 2edexcel Mechanics Question Paper

D Kirk



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Table of Contents June 2edexcel Mechanics Question Paper

1. Understanding the eBook June 2edexcel Mechanics Question Paper
 - The Rise of Digital Reading June 2edexcel Mechanics Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2edexcel Mechanics Question Paper
 - 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 June 2edexcel Mechanics Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2edexcel Mechanics Question Paper
 - Personalized Recommendations
 - June 2edexcel Mechanics Question Paper User Reviews and Ratings
 - June 2edexcel Mechanics Question Paper and Bestseller Lists
5. Accessing June 2edexcel Mechanics Question Paper Free and Paid eBooks
 - June 2edexcel Mechanics Question Paper Public Domain eBooks
 - June 2edexcel Mechanics Question Paper eBook Subscription Services
 - June 2edexcel Mechanics Question Paper Budget-Friendly Options
6. Navigating June 2edexcel Mechanics Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2edexcel Mechanics Question Paper Compatibility with Devices
 - June 2edexcel Mechanics Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2edexcel Mechanics Question Paper
 - Highlighting and Note-Taking June 2edexcel Mechanics Question Paper
 - Interactive Elements June 2edexcel Mechanics Question Paper

8. Staying Engaged with June 2edexcel Mechanics Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2edexcel Mechanics Question Paper
9. Balancing eBooks and Physical Books June 2edexcel Mechanics Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2edexcel Mechanics Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine June 2edexcel Mechanics Question Paper
 - Setting Reading Goals June 2edexcel Mechanics Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of June 2edexcel Mechanics Question Paper
 - Fact-Checking eBook Content of June 2edexcel Mechanics Question Paper
 - 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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