

7.

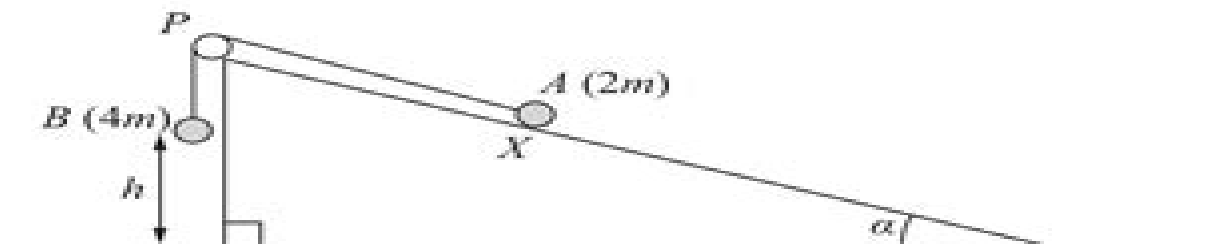


Figure 5

Figure 5 shows two particles A and B , of mass $2m$ and $4m$ respectively, connected by a light inextensible string. Initially A is held at rest on a rough inclined plane which is fixed to horizontal ground. The plane is inclined to the horizontal at an angle α , where $\tan \alpha = \frac{3}{4}$. The coefficient of friction between A and the plane is $\frac{1}{4}$. The string passes over a small smooth pulley P which is fixed at the top of the plane. The part of the string from A to P is parallel to a line of greatest slope of the plane and B hangs vertically below P . The system is released from rest with the string taut, with A at the point X and with B at a height h above the ground.

For the motion until B hits the ground,

(a) give a reason why the magnitudes of the accelerations of the two particles are the same, (1)

(b) write down an equation of motion for each particle, (4)

(c) find the acceleration of each particle. (5)

Particle B does not rebound when it hits the ground and A continues moving up the plane towards P . Given that A comes to rest at the point Y , without reaching P ,

(d) find the distance XY in terms of h . (6)

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Ian Pickup



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Table of Contents Mechanics Edexcel January 2014 Question Paper

1. Understanding the eBook Mechanics Edexcel January 2014 Question Paper
 - The Rise of Digital Reading Mechanics Edexcel January 2014 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Edexcel January 2014 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 a Mechanics Edexcel January 2014 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Edexcel January 2014 Question Paper
 - Personalized Recommendations
 - Mechanics Edexcel January 2014 Question Paper User Reviews and Ratings
 - Mechanics Edexcel January 2014 Question Paper and Bestseller Lists
5. Accessing Mechanics Edexcel January 2014 Question Paper Free and Paid eBooks
 - Mechanics Edexcel January 2014 Question Paper Public Domain eBooks
 - Mechanics Edexcel January 2014 Question Paper eBook Subscription Services
 - Mechanics Edexcel January 2014 Question Paper Budget-Friendly Options

6. Navigating Mechanics Edexcel January 2014 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanics Edexcel January 2014 Question Paper Compatibility with Devices
 - Mechanics Edexcel January 2014 Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics Edexcel January 2014 Question Paper
 - Highlighting and Note-Taking Mechanics Edexcel January 2014 Question Paper
 - Interactive Elements Mechanics Edexcel January 2014 Question Paper
8. Staying Engaged with Mechanics Edexcel January 2014 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics Edexcel January 2014 Question Paper
9. Balancing eBooks and Physical Books Mechanics Edexcel January 2014 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics Edexcel January 2014 Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanics Edexcel January 2014 Question Paper
 - Setting Reading Goals Mechanics Edexcel January 2014 Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanics Edexcel January 2014 Question Paper
 - Fact-Checking eBook Content of Mechanics Edexcel January 2014 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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