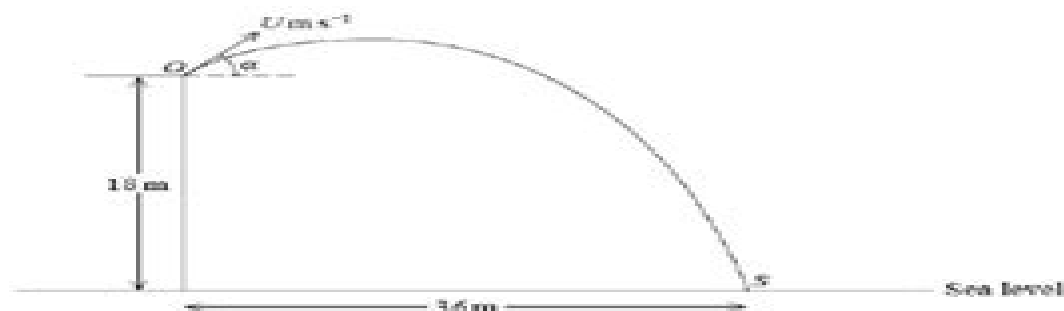


Questions**Q1.****Figure 2**

A boy throws a stone with speed $U \text{ m s}^{-1}$ from a point O at the top of a vertical cliff. The point O is 18 m above sea level.

The stone is thrown at an angle α above the horizontal, where $\tan \alpha = \frac{3}{4}$.

The stone hits the sea at the point S which is at a horizontal distance of 36 m from the foot of the cliff, as shown in Figure 2.

The stone is modelled as a particle moving freely under gravity with $g = 10 \text{ m s}^{-2}$

Find

- (a) the value of U , (5)
- (b) the speed of the stone when it is 10.8 m above sea level, giving your answer to 2 significant figures. (5)
- (c) Suggest two improvements that could be made to the model. (2)

(Total for question = 13 marks)

June 2edexcel Cpaper

L Cohen



June 2edexcel Cpaper:

This book delves into June 2edexcel Cpaper. June 2edexcel Cpaper is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into June 2edexcel Cpaper, encompassing both the fundamentals and more intricate discussions.

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- Chapter 5: Conclusion

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Table of Contents June 2edexcel Cpaper

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

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