

1. [In this question, position vectors are given relative to a fixed origin.]

At time  $t$  seconds, where  $t > 0$ , a particle  $P$  has velocity  $\mathbf{v} \text{ ms}^{-1}$  where

$$\mathbf{v} = 3t^2\mathbf{i} - 6t^{\frac{1}{2}}\mathbf{j}$$

- (a) Find the speed of  $P$  at time  $t = 2$  seconds.

(2)

- (b) Find an expression, in terms of  $t$ ,  $\mathbf{i}$  and  $\mathbf{j}$ , for the acceleration of  $P$  at time  $t$  seconds, where  $t > 0$

(2)

At time  $t = 4$  seconds, the position vector of  $P$  is  $(\mathbf{i} - 4\mathbf{j}) \text{ m}$ .

- (c) Find the position vector of  $P$  at time  $t = 1$  second.

(4)



# Mechanics Edexcel January 2014 Question Paper

**G Orfield**



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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 an 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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