

A car is travelling along a straight horizontal road. The car takes 120 s to travel between two sets of traffic lights which are 2145 m apart. The car starts from rest at the first set of traffic lights and moves with constant acceleration for 30 s until its speed is 22 m s^{-1} . The car maintains this speed for T seconds. The car then moves with constant deceleration, coming to rest at the second set of traffic lights.

(a) Sketch, in the space below, a speed-time graph for the motion of the car between the two sets of traffic lights.

(2)

(b) Find the value of T .

(3)

A motorcycle leaves the first set of traffic lights 10 s after the car has left the first set of traffic lights. The motorcycle moves from rest with constant acceleration, $a \text{ m s}^{-2}$, and passes the car at the point A which is 990 m from the first set of traffic lights. When the motorcycle passes the car, the car is moving with speed 22 m s^{-1} .

(c) Find the time it takes for the motorcycle to move from the first set of traffic lights to the point A .

(4)

(d) Find the value of a .

(2)

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Richard Bailey

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Table of Contents M1 2013 June Edexcel Paper

1. Understanding the eBook M1 2013 June Edexcel Paper
 - The Rise of Digital Reading M1 2013 June Edexcel Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying M1 2013 June Edexcel 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 M1 2013 June Edexcel Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from M1 2013 June Edexcel Paper
 - Personalized Recommendations
 - M1 2013 June Edexcel Paper User Reviews and Ratings
 - M1 2013 June Edexcel Paper and Bestseller Lists
5. Accessing M1 2013 June Edexcel Paper Free and Paid eBooks
 - M1 2013 June Edexcel Paper Public Domain eBooks
 - M1 2013 June Edexcel Paper eBook Subscription Services
 - M1 2013 June Edexcel Paper Budget-Friendly Options

6. Navigating M1 2013 June Edexcel Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - M1 2013 June Edexcel Paper Compatibility with Devices
 - M1 2013 June Edexcel Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of M1 2013 June Edexcel Paper
 - Highlighting and Note-Taking M1 2013 June Edexcel Paper
 - Interactive Elements M1 2013 June Edexcel Paper
8. Staying Engaged with M1 2013 June Edexcel Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers M1 2013 June Edexcel Paper
9. Balancing eBooks and Physical Books M1 2013 June Edexcel Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection M1 2013 June Edexcel Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine M1 2013 June Edexcel Paper
 - Setting Reading Goals M1 2013 June Edexcel Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of M1 2013 June Edexcel Paper
 - Fact-Checking eBook Content of M1 2013 June Edexcel 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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