

A car, 4.4 metres long, has a fuel tank which holds 65 litres of fuel when full.
The fuel tank of a mathematically similar model of the car holds 0.05 litres of fuel when full.

Calculate the length of the model car in centimetres.

scale factor $\leftarrow 4.4\text{ m} \rightarrow$ volume factor
 $x\text{ m} \rightarrow 0.05\text{ l}$

volume factor $= K^3 = \frac{65}{0.05} = 1300 \rightarrow K = \sqrt[3]{1300}$

$K = \frac{4.4\text{ m}}{x\text{ cm}} = \frac{440}{x} \rightarrow x = \frac{440}{\sqrt[3]{1300}} = 40.3$

Answer 40.3 cm [3]

10



A, B, C, D and E are points on a circle.
Angle ABD = 58° , angle BAE = 85° and angle BDC = 19° .
BD and CA intersect at N.

Calculate

(a) angle BDE,

$180^\circ - 85^\circ = 95^\circ$

Answer(a) Angle BDE = 95 [1]

(b) angle AND.

$\angle CNB = 180^\circ - 58^\circ - 19^\circ = 103^\circ$

$\angle AND = 180^\circ - 103^\circ = 77^\circ$

Answer(b) Angle AND = 77 [2]

[Turn over]



Mathematics Paper 2 June 2013

Mariya Y. Omelicheva



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Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015

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A Level Further Mathematics for OCR A Mechanics Student Book (AS/A Level) Jess Barker, Nathan Barker, Michele Conway, Janet Such, 2017-12-14 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the OCR AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Mechanics content for AS and A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study

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Table of Contents Mathematics Paper 2 June 2013

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

6. Navigating Mathematics Paper 2 June 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Paper 2 June 2013 Compatibility with Devices
 - Mathematics Paper 2 June 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Paper 2 June 2013
 - Highlighting and Note-Taking Mathematics Paper 2 June 2013
 - Interactive Elements Mathematics Paper 2 June 2013
8. Staying Engaged with Mathematics Paper 2 June 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Paper 2 June 2013
9. Balancing eBooks and Physical Books Mathematics Paper 2 June 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Paper 2 June 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Paper 2 June 2013
 - Setting Reading Goals Mathematics Paper 2 June 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Paper 2 June 2013
 - Fact-Checking eBook Content of Mathematics Paper 2 June 2013
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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