

The diagram shows a triangular piece of land PQR in which angle $PQR = 90^{\circ}$, PQ = 8 m and QR = 12 m. A rectangle QUVW is to be used as the base of a greenhouse, where U, V and W lie on QR, RP and PQ respectively, QU = x m and QW = y m.

(i) Show that $y = 8 - \frac{2x}{3}$.

[2]

(iii) Express the area, A m², of the base of the greenhouse in terms of x.

111

(iii) Given that x can vary, find the maximum value of A.

[31

Solution:

2. (i) ΔPWV is similar to ΔPQR.

$$8 - y = \frac{8x}{12}$$

$$8 - y = \frac{2x}{3}$$

(ii) A = xy

$$-x(8-\frac{2x}{3})$$

 $-8x-\frac{2x^2}{3}$

(iii) dr - 8

$$\frac{d^24}{dr^2} = -\frac{4}{3} < 0$$

s> To find the

find dA = 0.

Then substitute

value of x into

4.

Gce O Level Mathematics Paper 2 2012 Answers

Ben Woolley

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GCE O Level Examination Past Papers with Answer Guides: Maths India Edition Cambridge International Examinations, 2004-03-03 These collections of the official past papers of the GCE O Level Examinations from the University of Cambridge International Examinations has been developed for students of GCE O level These books will act as tools for preparation and revision for students These books have an edited Answer Guide for each paper based on the marks scheme Exam Papers for Gce "o" Level Additional Maths, written by CIE Principal **Developing Effective 16-19 Teaching Skills** John Butcher, 2004 This book aims to enhance the competence of trainee teachers in secondary schools and FE colleges as they confront 16 19 teaching for the first time **Statistics of Education** Great Britain. Department of A Level Mathematics for OCR A Student Book 1 (AS/Year 1) Ben Woolley, 2017-07-06 New Education and Science.1979 2017 Cambridge A Level Maths and Further Maths resources help students with learning and revision Written for the OCR AS A Level Mathematics specifications for first teaching from 2017 this print Student Book covers the content for AS and the first year of 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 **Facts on Jamaica** Jamaica. Department of Statistics, 1973 **A Level Further Mathematics** for OCR A Statistics Student Book (AS/A Level) Vesna Kadelburg, Ben Woolley, 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 Statistics 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 British Affairs ,1957 **Debates in Mathematics Education** Gwen Ineson, Hilary Povey, 2020-06-15 This new and updated second edition of Debates in Mathematics Education explores the major issues that mathematics teachers encounter in their daily lives By engaging with established and contemporary debates this volume promotes and supports critical reflection and aims to stimulate both novice and experienced teachers to reach informed judgements and argue their point of view with deeper theoretical knowledge and understanding Divided into five accessible sections this book investigates and offers fresh insight into topics of central importance in mathematics education with this second edition including new discussions and chapters on Classic and contemporary issues of pedagogy politics philosophy and sociology of mathematics education International comparisons of achievement Digital technologies for teaching Mastery in mathematics Pop culture and mathematics Whether mathematics can be harmful Designed to stimulate discussion and support you in your

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education higher education and also for administrators and policy makers **Statistics of Education** Great Britain. Ministry of Education, 1979 Longman Effective Guide to 'O' Level Additional Mathematics Bee Hoo Ong, 2006 Graphic Sam Clegg, 1992-11-04 Assessment and Teaching of 21st Century Skills Patrick Griffin, Barry McGaw, Esther Care, 2011-10-20 Rapid and seemingly accelerating changes in the economies of developed nations are having a proportional effect on the skill sets required of workers in many new jobs Work environments are often technology heavy while problems are frequently ill defined and tackled by multidisciplinary teams This book contains insights based on research conducted as part of a major international project supported by Cisco Intel and Microsoft It faces these new working environments head on delineating new ways of thinking about 21st century skills and including operational definitions of those skills The authors focus too on fresh approaches to educational assessment and present methodological and technological solutions to the barriers that hinder ICT based assessments of these skills whether in large scale surveys or classrooms Equally committed to defining its terms and providing practical solutions and including international perspectives and comparative evaluations of assessment methodology and policy this volume tackles an issue at the top of most educationalists agendas Yaw Boadu-Ayeboafoh, 2006-02-23 A Level Further Mathematics for OCR A Pure Core Student Book 1 (AS/Year 1) Ben Woolley, 2017-08-31 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 Pure Core content for AS and the first year of 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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