

INDICES & SURDS

① Given $k = \frac{1}{\sqrt{3}}$ and that $p = \frac{1+k}{1-k}$ express in its simplest surd form

- (i) p
(ii) $p - \frac{1}{p}$

THE MATHS CENTRE

①

$$k = \frac{1}{\sqrt{3}} \quad p = \frac{1+k}{1-k}$$

THE MATHS CENTRE

$$i) \quad p = \frac{(1 + \frac{1}{\sqrt{3}})}{(1 - \frac{1}{\sqrt{3}})} = \frac{(\frac{\sqrt{3}+1}{\sqrt{3}})}{(\frac{\sqrt{3}-1}{\sqrt{3}})} = \left(\frac{\sqrt{3}+1}{\cancel{\sqrt{3}}}\right) \left(\frac{\cancel{\sqrt{3}}}{\sqrt{3}-1}\right) = \frac{\sqrt{3}+1}{\sqrt{3}-1}$$

$$= \frac{(\sqrt{3}+1)(\sqrt{3}+1)}{(\sqrt{3}-1)(\sqrt{3}+1)}$$

$$ii) \quad p - \frac{1}{p} = (2+\sqrt{3}) - \frac{1}{(2+\sqrt{3})}$$

$$= \frac{(2+\sqrt{3})^2 - 1}{2+\sqrt{3}}$$

THE MATHS CENTRE

$$= \frac{4+3+4\sqrt{3}-1}{2+\sqrt{3}} = \frac{6+4\sqrt{3}}{2+\sqrt{3}}$$

$$= \frac{(6+4\sqrt{3})(2-\sqrt{3})}{(2+\sqrt{3})(2-\sqrt{3})} = \frac{\cancel{12} - \cancel{4\sqrt{3}} + 8\sqrt{3} - 6\sqrt{3}}{4-3} = 2\sqrt{3} \quad \times$$

THE MATHS CENTRE

Igcse Year 10 Maths Past Papers

Xiaolong Qi



Igcse Year 10 Maths Past Papers:

Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison, Nick Hamshaw, 2012-07-12 A series of titles written to cover the complete Cambridge IGCSE Mathematics 0580 syllabus and endorsed by Cambridge International Examinations This lively textbook written by an experienced author and teacher delivers comprehensive coverage of the IGCSE Mathematics syllabus for both Core and Extended courses Offering a wealth of questions supported by worked examples and diagrams with hints and tips along the way to reinforce skills and guide learning The dynamic and quality text endorsed by Cambridge International Examinations has been made available in print and e book formats The print book includes a CD ROM of supplementary materials including interactive revision questions worksheets worked solutions and calculator support These supplementary materials except the interactive questions are also included in the e book version

Core Mathematics for IGCSE David Rayner, 2000 This text offers key facts worked examples international contexts questions including those from past exam papers in built revision and full coverage of IGCSE syllabuses for secondary maths pupils in overseas schools taking IGCSE

Cambridge IGCSE™ Maths Student's Book (Collins Cambridge IGCSE™) Chris Pearce, 2021-06-07 Collins Cambridge IGCSE Maths Student's Book Third Edition provides in depth coverage of every aspect of the latest Cambridge IGCSE and IGCSE 9 1 Mathematics 0580 0980 syllabuses for examination from 2020 The resource covers the Core and Extended curriculum

Key Maths GCSE David Baker, 2002-01-25 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for non specialist useful supplementary ideas and homework sheets

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Usos matemáticos de Internet Jaime Carvalho e Silva, 2005 Recoge los contenidos del curso de formación del profesorado Usos matemáticos en internet que se celebran en la Universidad Internacional Menéndez Pelayo de Santander en el verano de 2004

The Times Index, 2009 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

Environmental Education Curriculum Workshop Report, 1988

Namibia National Bibliography, 1993

Forthcoming Books Rose Arny, 2003-12

Additional Mathematics, 1997*

Year 10 Mathematics Practice Papers Dilan Wimalasena, 2020-04-28 This book contains 6 exam practice papers and it is aimed at year 10 end of year GCSE preparation mathematics examinations These papers are written according to the year 10 GCSE mathematics syllabuses mainly for schools in The United Kingdom However they can still be used as practice for other exams for 14 to 15 year old students as well Each section contains 3 exam papers labelled as paper 1 paper 2 paper 3 similar to the actual exam

Mathematics Anna Ferri,2000	Mathematics Year 11 Sharon Kennedy,2013	<u>Mathematics Year 12</u> ,2012
<u>Mathematics</u> Anna Ferri,2001	<i>General Mathematics Year 11</i> Sharon Kennedy,2013	<u>Intermediate 1 Maths Past</u>
<u>Papers</u> Leckie & Leckie,2002-03-01	General Mathematics Year 12 Sharon Kennedy,2012	<u>Past Papers Mathematics</u>
,2006		

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