

Level 2 Certificate

Name: _____

FURTHER MATHEMATICS

Predicted Paper 2

Total = 80 marks

Calculator Allowed

Time Allowed: 1 hour 45 minutes

1 $f(x) = x^2 - 4x + 3 \quad x \geq 0$

$g(x) = x - 3 \quad x \geq 0$

$h(x) = \frac{x}{3x+2} \quad x > -2/3$

(a) Find the range for $f(x)$

$f(x) = (x-2)^2 - 1 \quad \text{min} = (2, -1) \quad \underline{f(x) \geq -1}$ [3 marks]

(b) Solve $fg(x) = 0$

$f_g(x) = (x-3)^2 - 4(x-3) + 3$
 $= x^2 - 6x + 9 - 4x + 12 + 3$
 $x^2 - 10x + 24 = 0$ [3 marks]

(c) Find $h^{-1}(x)$

$y = \frac{x}{3x+2}, \quad x = \frac{y}{3y+2} \quad x(3y+2) = y$
 $3xy + 2x = y$
 $y(3x-1) = -2x$
 $y = \frac{-2x}{3x-1}$
 $\underline{h^{-1}(x) = \frac{-2x}{3x-1} \text{ or } \frac{2x}{1-3x}}$ [3 marks]

2 (a) Factorise fully $(5x - 2y)^2 - (x + 6y)^2$

D.O.T.S $(5x-2y+x+6y)(5x-2y-x-6y)$
 $(6x+4y)(4x-8y)$
 $2(3x+2y) \cdot 4(x-2y) = 8(3x+2y)(x-2y)$ [3 marks]

(b) Factorise fully $(x+5)^2 - 4(x+5)^2$

$(x+5)^2(x+5-4)$
 $(x+5)^2(x+1)$ [3 marks]

3 $\sin x = k$, where x is an obtuse angle

Find the value of $\cos x$ in terms of k .

$\sin^2 x + \cos^2 x = 1$
 $k^2 + \cos^2 x = 1$
 $\cos^2 x = 1 - k^2$



$\cos x = \pm \sqrt{1 - k^2}$

But x is obtuse (see graph)
 $\therefore \cos x < 0$
 $\underline{\cos x = -\sqrt{1 - k^2}}$ [2 marks]

Aqa Further Pure 2 Notes

Graham Booth, David Brodie



Aqa Further Pure 2 Notes:

Revise AS & A2 Physics Study Guide Graham Booth, 2008 *My Revision Notes: AQA Level 2 Certificate in Further Mathematics* Michael Ling, 2020-01-20 Target success in the AQA Certificate in Further Maths with this proven formula for effective structured revision Key content coverage and numerous worked examples are combined with exam style questions to create a revision guide that students can rely on to review strengthen and test their knowledge Help develop the key skills needed for success with skills focused and problem solving questions covering the 2018 specification Strategically target revision with diagnostic questions to establish which areas need focus Get assessment ready with exam style questions and advice on common examination pitfalls Revise effectively with advice on exam preparation plus special focus on common pitfalls such as how to show correct workings Improve answers with full step by step worked solutions to all questions provided online for free **A Student's Guide to GCSE Music for the AQA Specification** David Bowman, 2002-10

Physics Graham Booth, David Brodie, 2008-07 Divided into seven manageable day sections this timed revision programme covers essential GCSE topics in double page spreads These spreads indicate how much time should be spent on each section and combine clear and concise explanations flow charts spidergrams and illustrations with progress check questions and answers *Light Alloys* Robert John Hussey, Josephine Wilson, 2013-04-17 *Light Alloys Directory and Databook* is a world wide directory of the properties and suppliers of light alloys used in or proposed for numerous engineering applications Alloys covered will include aluminium alloys magnesium alloys titanium alloys beryllium For the metals considered each section will consist of a short introduction a table comparing basic data and a series of comparison sheets The book will adopt standardised data in order to help the reader in finding and comparing different materials and identifying the required information All comparison sheets are cross referenced so that the user will be able to locate data on a specific product or compare properties easily The book is designed to complement the existing publications on high performance materials *Freshwater and Marine Aquarium* , 1996 *My Revision Notes: AQA A Level Maths (Pure)* Sophie Goldie, 2018-12-31 Exam board AQA Level A level Subject Mathematics First teaching September 2017 First exams Summer 2019 Target success in AQA A Level Mathematics with this proven formula for effective structured revision key content coverage and plentiful worked examples are combined with exam style and multiple choice questions to create a revision guide that students can rely on to review strengthen and test their knowledge Help develop the key skills needed for success with skills focused questions around problem solving proof modelling and the use of ICT spreadsheets graphing software and graphing calculators Strategically target revision with diagnostic questions to establish which areas need focus Get assessment ready with exam style questions and advice on common examination pitfalls Embed knowledge and identify weaknesses with hundreds of multiple choice Test Yourself questions all carefully written to elicit misconceptions full worked solutions online offer detailed instructive explanations for all choices whether they are correct or incorrect Consolidate

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