

Solutions for GCE O Level Additional Math Paper 1 & 2 – 2010

Paper 1:

1. The function f is defined by $f(x) = x^4 - x^3 + kx - 4$ where k is a constant.
 - (i) Given that $x - 2$ is a factor of $f(x)$, find the value of k .
[2]
 - (ii) Using the value of k found in part (i), find the remainder when $f(x)$ is divided by $x + 2$.
[2]

Solution:

- (i) **Method 1: Rewrite**

$$f(x) = x^4 - x^3 + kx - 4 =$$

$$= x^4 - 2x^3 + x^3 - 2x^2 + 2x^2 - 4x + (k + 4)x$$

$$= (x - 2)(x^3 + x^2 + 2x + k + 4) + 2k + 4$$
 Since $x - 2$ is a factor of $f(x) \Rightarrow 2k + 4 = 0 \Leftrightarrow k = -2$
Method 2:
 $\because x - 2$ is a factor of $f(x) \Rightarrow f(2) = 0 \Leftrightarrow 16 - 8 + 2k - 4 = 0$
 $\therefore k = -2$
- (ii) **Method 1: Substitute $k = -2$ and rewrite**

$$f(x) = x^4 - x^3 - 2x - 4 =$$

$$= x^4 + 2x^3 - (3x^3 + 6x^2) + (6x^2 + 12x)$$

$$= (x + 2)(x^3 - 3x^2 + 6x - 14) + 24$$
 Hence, the remainder = 24
Method 2: The remainder = $f(-2) = 24$

2.
 - (i) Show that
 $(\sin x + \cos x)^2 = 1 + \sin 2x$
 [2]
 - (ii) Hence find, in terms of π , the value of
 $\int_0^{\frac{\pi}{2}} (\sin x + \cos x)^2 dx$
 [4]

Solution:

- (i) $(\sin x + \cos x)^2 = \sin^2 x + \cos^2 x + 2 \sin x \cos x = 1 + \sin 2x$
- (ii) Use result from part (i):

$$\int_0^{\frac{\pi}{2}} (\sin x + \cos x)^2 dx = \int_0^{\frac{\pi}{2}} (1 + \sin 2x) dx = \left[x - \frac{\cos 2x}{2} \right]_0^{\frac{\pi}{2}}$$

$$= \left(\frac{\pi}{2} - \frac{\cos \pi}{2} \right) - \left(0 - \frac{\cos 0}{2} \right) = \frac{\pi}{2} + \frac{1}{2} - \left(-\frac{1}{2} \right)$$

$$= \frac{\pi}{2} + 1$$
3. Using a separate diagram for each part, represent on the number line the solution set of
 - (i) $3(2 - x) < x + 18$
[2]
 - (ii) $3(x^2 - 5) > x - 1$
[3]

State the set of values of x which satisfy both of these inequalities.
[1]

Solution: (draw the graph yourself)

O Level Additional Mathematics Past Papers

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Worked solutions for all exercises are available in the Boost eBook Teacher edition **Cambridge IGCSE and O Level Additional Mathematics** Val Hanrahan, Jeanette Powell, 2018-07-09 Exam board Cambridge Assessment International Education Level IGCSE Subject Mathematics First teaching September 2018 First exams Summer 2020 This title is endorsed by Cambridge Assessment International Education to support the full syllabus for last examination in 2024 Confidently select and apply the appropriate mathematical techniques to solve problems ensure full coverage of the Cambridge IGCSE and O Level Additional Mathematics syllabuses 0606 4037 with a comprehensive Student s Book written by an accomplished team of authors and examiners Fully engage with mathematical concepts using discussion points to prompt deeper thinking Apply mathematical techniques to solve problems through a variety of activities Encourage full understanding of mathematical principles with bubble text providing additional explanations Develop mathematical techniques with plenty of opportunities for practice Answers are in the Boost Core Subscription Available in the series Student Textbook ISBN 9781510421646 Workbook ISBN 9781510421653 Student Book Boost eBook ISBN 9781398333802 Boost Core Subscription ISBN 9781398340992 **O-level Additional Mathematics Challenging Exam Solutions (Yellowreef)** Thomas Bond, Chris Hughes, 2013-11-26 10 sets of complete solutions to the challenging examination questions full and complete mark schemes and exam reports are included for the candidate to review his her answers best used just before taking the actual examination complete edition eBook available **O-level Additional Mathematics Challenging Exam Questions (Yellowreef)** Thomas Bond, Chris Hughes, 2013-11-26 10 sets of up to date ordinary examination papers with actual question types answer keys intentionally withheld to simulate actual examination condition full solutions mark schemes and exam reports for the questions available separately best used just before taking the actual examination complete edition and concise edition eBooks available Additional Mathematics ,1978 Mathematics Education in Singapore Tin Lam Toh, Berinderjeet Kaur, Eng Guan Tay, 2019-02-07 This book provides a one stop resource for mathematics educators policy makers and all who are interested in learning more about the why what and how of mathematics education in Singapore The content is organized according to three significant and closely interrelated components the Singapore mathematics curriculum mathematics teacher education and professional development and learners in Singapore mathematics classrooms Written by leading researchers with an intimate understanding of Singapore mathematics education this up to date book reports the latest trends in Singapore mathematics classrooms including mathematical modelling and problem solving in the real world context *Be Afra Volume 1* Oladipo G. B. Ogunseitan, 2010-08 Be Afra Be a frater Be a brother Be our brother s keeper Love the Brotherhood was the message of Beloved Afra for which he was crucified 500 000 years ago on a continent named after him AFRICA There are more things in heaven and earth than are dreamt of in our philosophy science and religion Life is not a happenstance The Berlin Act 1885 the Biafran War 1967 1970 June 12 1993 Sep 11 2001 the election of Barack Obama as the 44th President of the USA or any other event in life is not a happenstance This is demonstrated in Be

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historical geographical and global aspects of school mathematics reforms and explores in which way curricula are elaborated proposed changed and reorganized It offers a more informed and comprehensive analysis of the roles of different actors and of the many aspects influencing and shaping mathematics curriculum reforms that are taking or have taken place It also explores the possibilities and means to tackle a curricular reform in the current scenario we live in and how to unfold future developments This book will be of interest to practitioners and scholars with an interest in school mathematics curriculum reforms It will also be a useful resource to those involved in school mathematics curriculum reform initiatives by providing current information about the curriculum changes that are taking place in respect of content teacher education educational materials and a range of implementation challenges across diverse contexts **Bibliografi negara Malaysia ,1979**

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