



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

2021

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages and 1 information sheet.

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QUESTION 1

- 1.1 Solve for x :
 - 1.1.1 $x^2 + 3x + 2 = 0$ (5)
 - 1.1.2 $3x^2 + x - 4 = 0$ (Show partial solution in TWO distinct parts) (10)
 - 1.1.3 $x^2 = 49$ (5)
- 1.2 Given $y = \frac{3x}{x^2 + 2}$:
 - 1.2.1 Solve for x (5)
 - 1.2.2 Hence solve for x : $2x^2 + 3x = 4$ (5)
- 1.3 Without using a calculator, calculate the value of $\sqrt{\frac{36x^2 + 49}{121x^2}}$ (5)
- 1.4 Solve for x and y simultaneously:
 $(x + y + 1) = \frac{1}{x}$ and $\frac{1}{y} = 4y + 1$ (10)

QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 34.
 Determine:
 - 2.1.1 d , the common difference of the sequence (5)
 - 2.1.2 The number of terms in the sequence if the last term of the sequence is 47 (5)
 - 2.1.3 The sum of the first 40 terms in the sequence (5)
- 2.2 $16, 25, 36, 49, \dots$ is a quadratic number pattern.
 - 2.2.1 Write down the 100th term of the number pattern (5)
 - 2.2.2 Determine the n^{th} term of the number pattern (5)
 - 2.2.3 Determine the maximum value of the following number pattern:
 $-12, -\frac{11}{2}, -5, -\frac{9}{2}, \dots$ (5)

Nsc Exam Papers February March 2010

Lauren Gardner



Nsc Exam Papers February March 2010:

Department of Homeland Security Appropriations for 2011 United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security,2010 **Department of Homeland Security Appropriations for Fiscal Year 2010** United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of Homeland Security,2009 *Department of Homeland Security Appropriations for 2010, Part 4, 2009, 111-1 Hearings ,2009*
Department of Homeland Security Appropriations for Fiscal Year ... United States. Congress. Senate. Committee on Appropriations. Subcommittee on the Department of Homeland Security,2009 Department of Homeland Security Appropriations for 2011, Part 4, March 4, 2010, 111-2 Hearings, * ,2010 **Department of Homeland Security Appropriations for 2011, Part 3, March 24, 2010, 111-1 Hearings** ,2010 *Negotiating the U.S.-Japan Alliance* Yukinori Komine,2016-12-19 In recent years the U S Japan alliance has marked several anniversaries including 40 years since the 1969 decision on the reversion of Okinawa These occasions have provided crucial opportunities to reassess the continuing significance of U S Japan security and diplomatic relations prompting this investigation into major issues in negotiations between the two countries This book is the first comprehensive and comparative analysis of the U S and Japanese foreign policy formulation and implementation processes from 1961 to 1978 which also explores the long term strategic significance of the U S deterrence in East Asia It is based on numerous declassified and previously unused U S and Japanese documents oral histories and the author s interviews with former officials The book traces the origins of contemporary security and diplomatic issues back to the 1961 1978 U S Japan negotiations involving secret arrangements in the reversion of Okinawa Japan s defense build up including the question of Japan s nuclear option and U S Japan defense cooperation Through a systematic assessment of the behind the scenes discussions Dr Yukinori Komine demonstrates that external security calculations were consistently primary factors in U S Japan relations The book concludes by making policy relevant suggestions important for the Pacific Century This book offers crucial contributions to the ongoing debate regarding the increasing need for greater transparency and burden sharing in the U S Japan alliance It will appeal to scholars and students of International Relations of the Asia Pacific region East Asia U S relations U S Politics and Japanese Politics as well as Foreign Policy **Fighting for Virtue** Duncan McCargo,2020-01-15 Fighting for Virtue investigates how Thailand s judges were tasked by the late King Bhumibol Adulyadej Rama IX in 2006 with helping to solve the country s intractable political problems and what happened next Across the last decade of Rama IX s rule Duncan McCargo examines the world of Thai judges how they were recruited trained and promoted and how they were socialized into a conservative world view that emphasized the proximity between the judiciary and the monarchy McCargo delves into three pivotal freedom of expression cases that illuminate Thai legal and cultural understandings of sedition and treason before examining the ways in which accusations of disloyalty made against controversial former prime minister Thaksin Shinawatra came to occupy a central

place in the political life of a deeply polarized nation The author navigates the highly contentious role of the Constitutional Court as a key player in overseeing and regulating Thailand's political order before concluding with reflections on the significance of the Bhumibol era of judicialization in Thailand In the end posits McCargo under a new king who appears far less reluctant to assert his own power and authority the Thai courts may now assume somewhat less significance as a tool of the monarchical network

First review of the National Security Strategy 2010 Great Britain: Parliament: Joint Committee on the National Security Strategy, 2012-03-08 In this report the Joint Committee on the National Security Strategy finds that the National Security Strategy should address more fundamental questions about the UK's role in the world and its relationship with the USA and other allies The Strategy also needs to be subject to a much wider public debate The Committee says that there is no evidence that the NSS has influenced decisions made since the Strategic Defence and Security Review there should be an overarching strategy a document designed to guide government decision making and crisis management both at home and on the international stage the Government's assertion that there will be no reduction in the UK's influence on the world stage is wholly unrealistic in the medium to long term and the UK needs to plan for a changing and more partnership dependent role in the world The Government's unwillingness to provide the Committee with all the information it has asked for about the National Security Risk Assessment means that it is unable to give Parliament any assurances about its adequacy The report also notes concern that the National Security Council's oversight of security issues is not sufficiently broad and strategic given that it was deeply involved in operations in Libya and failed to discuss the national security implications of the Eurozone crisis or the possibility of Scottish independence

The Influence of Public Opinion on Post-Cold War U.S. Military Interventions Helene Dieck, 2016-01-18 Based on interviews with political decision makers involved in post Cold War case studies this research reassesses the prevalent conclusion in the academic literature according to which American public opinion has limited influence on military interventions by including the level of commitment in the study of the decision making process

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