- 12. Find the solution set of the equation  $\left| \frac{2x+5}{6} \right| 3 = 1$
- 13. If  $\frac{a}{b} = \frac{c}{d} = \frac{e}{f}$ , Prove that  $(a^2 + c^2 + e^2)(b^2 + d^2 + f^2) = (ab + cd + ef)^2$
- If a perpendicular is drawn from the centre to a chord of a circle, it bisects the chord. Prove.
- 15. Prove that  $\sin^2\theta + \cos^2\theta = 1$ .
- 16. Find the solution set of:  $\sqrt{25y-6}=4\sqrt{y+3}$

#### SECTION 'C' (DETAILED - ANSWER QUESTIONS)

# NOTE: Attempt 3 questions from this section. Including Q.no.19 which is compulsory. (30)

- 17. Factorize the following:- (10) (i)  $18x^2 + 9x - 20$  (ii)  $a^4 + 64$ (iii)  $a^3 - a^2 + 2$  (iv)  $27x^3 - 1 + 8y^6 + 18xy^2$
- 18. Find the solution set of the following equations graphically: (Find four ordered pairs for each equation.)
  x 2y = -3
  2x + y = 14
- In any correspondence of two right-angles, if their hypotenuses are congruent and one more side of one triangle is congruent to the corresponding side of the other, the two triangles are congruent. Prove it. (10)
- 20.(a) The marks obtained by 84 students in an examination are given below. Find the mean: (05)

and Direction of the first time and tim					77
Marks	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49
Students	9	18	35	17	5

- (b) Factors with the help of remainder theorem. (05)  $x^3 + 3x^2 + 4x 28$ .
- 21. Take two points p & q at a distance of 7cm. Draw circles with the radii of 2.8cm, and 1.6cm with centres p & q. Draw direct common tangent to these circles & write steps of construction

## MATHEMATICS

2010

Time: 30 minutes

Max. Marks: 20

### SECTION 'A' MULTIPLE CHOICE QUESTION

- Choose the correct answer for each from the given options: (20)
- (i)  $(\sqrt{x} + \sqrt{y})(\sqrt{x} \sqrt{y}) = \cdots$

# **Matric Maths Past Papers 2011**

## **Anna Ferri**

#### Matric Maths Past Papers 2011:

ICT Education Richard J. Barnett, Daniel B. le Roux, Douglas A. Parry, Bruce W. Watson, 2022-12-07 This book constitutes the refereed proceedings of the 51st Annual Conference of the Southern African Computer Lecturers Association SACLA 2022 held in Cape Town South Africa during July 21 22 2022 The 10 full papers were included in this book were carefully reviewed and selected from 31 submissions They were organized in topical sections as follows curriculum assessment South African national bibliography, 1999 Classified teaching in context innovative teaching and pandemic pedagogy list with author and title index Research for Educational Change Jill Adler, Anna Sfard, 2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perenial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research **Homeschooling High School** Shirley Erwee, 2014-08-28 Prospective homeschoolers are parents looking for an alternative to the mainstream educational system for their offspring But homeschooling children at high school level strikes fear into even the most dedicated of homeschoolers They need information and answers to their questions And with the current educational and unemployment problems in South Africa young people need clear direction and guidance to help them achieve their goals In addition to exploring the popular ways to gaining a recognised matric certificate outside the formal school system Homeschooling High School also challenges readers to rethink their values particularly the value they place on certification and to consider some unconventional or alternative paths to success In a clearly presented format the book includes advice on legal matters identifying appropriate courses sourcing study material tips on entrepreneurship financing tertiary studies and the testimonies of successful homeshooled graduates Homeschooling High School is a comprehensive guide to plotting a path

through high school and beyond Just a Larger Family Mary F. Williamson, Tom Sharp, 2011-05-15 The Second World War had been under way for a year when Marie and John Williamson welcomed two English brothers to join them and their two children in their small house in north Toronto for the duration of the conflict Marie wrote over 150 letters to the boys mother Margaret Sharp imagining that she could make Margaret feel she was still with her children She shepherded the boys through education decisions and illnesses eased them into a strange new life and rejoiced when they embraced unfamiliar winter sports The letters brim with detail about family holidays the financial implications of an extended family their involvement in their church and the games and activities that kept them occupied Marie's letters reflect the lives and concerns of a particular family in Toronto but they also reveal a portrait of what was then Canada's second largest city during wartime The introduction is by Mary F Williamson Marie's daughter and Tom Sharp Margaret's youngest son The book features a foreword by Jonathan Vance that puts the letters in historical context Mathematics, Standard Grade, DET 1989/1992 Sheryl Benjamin, Jo-Anne Horwitz, 1993 Matric Past Papers with Suggested Answers Shervl Benjamin, 1994 Mathematics Anna Ferri, 2000 Mathematics, Higher Grade, House of Delegates (Indian Affairs) 1988/1992 Sheryl Benjamin, Jo-Anne Horwitz, 1993 Matric Past Papers with Suggested Answers Sheryl Benjamin, Jo-Anne Matric Past Papers with Suggested Answers Sue Richardson, 1995 Mathematics Anna Ferri, 1999 Horwitz, 1994 Matric Past Papers with Suggested Answers Sheryl Benjamin,1993 **Matric Past Papers with Suggested Answers** Mathematics, Higher Grade, Transvaal 1988/1992 Sheryl Benjamin, 1993 Sheryl Benjamin, 1995 **Mathsolutions** Adrienne Melzer.1988 Matric Past Papers with Suggested Answers Sheryl Benjamin, 1994 **Matric Past Papers with** Matric Solutions Charles Melzer, 1988 **Suggested Answers** Sheryl Benjamin, 1995 Mathematics Anna Ferri, 2001

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