

SHARP

Worksheet 7: Functions and Graphs

(Parabolas, Hyperbolas and Exponential Graphs)

Grade 11 Technical Maths

1. Give the standard formula for each of these graphs:

- | | |
|--------------|----------------------|
| a) parabola | b) exponential graph |
| c) hyperbola | d) straight line |

2. For each of the graphs given below find the following (if possible):

- | | |
|---------------------|--|
| i) y-intercept | ii) x-intercept(s) |
| iii) turning point | iv) axes of symmetry |
| v) domain and range | vi) a table with points for $-3 \leq x \leq 3$ |
| vii) asymptotes | viii) draw the graph |

- | | |
|------------------------------|------------------------------|
| a) $a(x) = (x - 1)^2 + 5$ | b) $b(x) = -2(x - 2)^2 + 3$ |
| c) $c(x) = 2x^2 - 12x + 9$ | d) $d(x) = -x^2 + 7x - 6$ |
| e) $e(x) = \frac{-3}{x} + 4$ | f) $f(x) = \frac{5}{x} - 9$ |
| g) $g(x) = \frac{1}{x} + 2$ | h) $h(x) = \frac{-4}{x} - 3$ |
| i) $i(x) = 3 \cdot 2^x + 4$ | j) $j(x) = -2 \cdot 5^x - 1$ |

3. Find the standard equation for each of the graphs below.

- a) A parabola with turning point (1; 5) and intersecting the origin.
- b) A parabola with x-intercepts at $x = 3$ and $x = -4$ and y-intercept at $y = 5$.
- c) A hyperbola with an asymptote at $y = 2$ and point (-1; 3) on the graph

Sharp Grade 11 Maths Papers

Roser Pintó,Digna Couso



Sharp Grade 11 Maths Papers:

The British National Bibliography Arthur James Wells, 1968 **Popular Mechanics** ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Backpacker** ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

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feedback on their own progress New visual concepts maps at the end of each chapter to help summarise understanding
Worked examples in every lesson featuring the familiar THINK WRITE columns provide exemplary solutions and explanations
New response analysis report for deeper insights and comparisons

Social Interactions in Multicultural Settings

,2019-02-11 Multicultural issues are part of the agenda for researchers academics and politicians The new technologies have brought multiculturalism into our professional and personal lives opening new possibilities for social interactions among people from different countries cultures ages and gender Being able to deal with diversity including other cultures is a must in the 21st century This book is an opportunity to read narratives about social interactions in multicultural settings and to discuss the role they play in the construction of school and social achievement It is not only a book on multiculturalism It is also a multicultural book including an introduction and 13 chapters from authors representing 11 countries and many more cultures It is a journey that brings you through different settings situations and scenarios describing them vividly so that the reader can have an authentic taste of them This is a book that researchers academics teachers policy makers and politicians should read It illuminates many of the problems related to multiculturalism But it also reports on educational experiences and forms of interacting that help solving these problems It also illustrates the barriers that still exist and that keep many persons apart from equity Moreover due to its narrative mood the descriptions of what happens in different educational systems and episodes that could happen to us all including our kids this is a book for parents youngsters and all the ones interested in knowing other cultures After all education is an issue that is related to each human being We are all cultural individuals who need to interact with each other Thus this is a book to learn how social interactions in such a demanding multicultural world can help us live in peace and understand each other

Contributions from Science Education Research

Roser Pintó,Digna Couso,2007-09-19 In August 2005 over 500 international researchers from the field of science education met at the 5th European Science Education Research Association conference in Barcelona Spain Two of the main topics at this conference were the decrease in the number of students interested in school science and concern about the worldwide outcomes of studies on students scientific literacy At the conference over 400 papers were presented covering a wide range of topics relevant to science education research such as evidence based practice teachers professional development the role of ICT and multimedia formal and informal learning environments and argumentation and modelling in science education This volume includes edited versions of 37 outstanding papers presented during the conference including the lectures of the keynote speakers They have been selected for their quality variety and interest and present a good overview of the field of science education research

Popular Science

,2004-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better *The Times Index* ,2012 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational

supplement Scotland and the Times higher education supplement **Catalog** Sears, Roebuck and Company,1910 The Guardian Index ,1998 *Pacific Builder & Engineer* ,1921 *British Books in Print* ,1971 **Farmer's Weekly** ,1918

The Cumulative Book Index ,1965 A world list of books in the English language New Frontiers for College Education Jim Gallacher,Fiona Reeve,2018-08-06 The college sector is facing a growing number of new challenges caused by technological change globalisation and the growth of mass higher education New Frontiers for College Education considers the impact these changes have had and explores the developing role of college education in countries throughout the world Whilst analysing the issues associated with providing high quality vocational education and training the book also reflects on the role of colleges in widening access to both further and higher education Drawing together contributions from leading international academics policymakers and practitioners the book explores common themes across these diverse societies as well as some of the key challenges experienced within individual countries It considers the distinctive contributions that colleges can make in responding to these challenges through apprenticeships and other types of vocational education and training Contributors discuss the growing emphasis on creating more integrated systems of tertiary education recognising that colleges and universities are now expected to work more closely together and that these diverse demands can be difficult to reconcile Providing an authoritative and timely analysis of the changing role of colleges in contemporary society this book will be of great interest to academics researchers and postgraduate students in the areas of further and higher education vocational education and training lifelong learning and skills development It should also be essential reading for policymakers as well as practitioners working in colleges and other institutions of higher and further education

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