

GRADE 10 MATHEMATICS SEPTEMBER TEST 1

Trigonometry & Statistics

QUESTION 1

The graphs below shows the functions of $f(x) = 2 \sin x$ and $g(x) = a + \cos x$ for $x \in [0^\circ; 360^\circ]$. Use the graphs to answer the following questions:



1.1 What is the value of a ?

(2)

.....

(1)

.....

(1)

.....

(1)

.....

.....

1.6 What transformation needs to be applied to graph/function f to transform this function to represent the function $h(x) = 2 \cos x$?

(1)

[8]

Mathematics Grade 10 September 2014

Karen Panetta, Katianne Williams



Mathematics Grade 10 September 2014:

International Science and Technology Education Ortwin Renn, Nicole Karafyllis, Andreas Hohlt, Dorothea Taube, 2015-06-24 Education in science technology engineering and mathematics STEM is crucial for taking advantage of the prospects of new scientific discoveries initiating or promoting technological changes and managing opportunities and risks associated with innovations This book explores the emerging perspectives and methodologies of STEM education and its relationship to the cultural understanding of science and technology in an international context The authors provide a unique perspective on the subject presenting materials and experiences from non European industrialized as well as industrializing countries including China Japan South Korea India Egypt Brazil and the USA The chapters offer a wide scope of interpretations and comparative reviews of STEM education by including narrative elements about cultural developments considering the influence of culture and social perceptions on technological and social change and applying innovative tools of qualitative social research The book represents a comprehensive and multidisciplinary review of the current status and future challenges facing STEM education across the world including issues such as globalization interdependencies of norms and values effects on equity and social justice as well as resilience Overall the volume provides valuable insights for a broad and comprehensive international comparison of STEM philosophies approaches and experiences **Teaching**

Mathematics Creatively Linda Pound, Trisha Lee, 2015-04-24 This new and updated edition of Teaching Mathematics Creatively offers a range of strategies to enable trainee and practising teachers to take an innovative playful and creative approach to maths teaching It promotes creativity as a key element of practice and offers ideas to involve your students and develop knowledge understanding and enjoyment Exploring fresh approaches this text explains the role of play in bringing mathematics alive for children and teachers alike It identifies the power of story telling in supporting mathematical thinking examines cross curricular teaching and allows you to plan for teaching creatively Imaginative ideas underpinned by the latest research and theory include Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Giant maths how much food do you include on a giant shopping list Stimulating and accessible with contemporary and cutting edge practice at the forefront Teaching Mathematics Creatively includes a wealth of innovative ideas to enthuse teachers and enrich maths teaching This book is an essential purchase for any professional who wishes to embed creative approaches to teaching in their classroom Count Girls In Karen

Panetta, Katianne Williams, 2018-08-01 Maybe you have a daughter who loves cooking soccer and musicals Maybe she is a social butterfly an athlete a fashionista and a humanitarian who wants to change the world Be honest do you think Well she is clearly not a math and science kid Do you assume that certain classes and careers won't appeal to her Count Girls In challenges these assumptions and presents a totally different way of thinking there is a place for all girls and young women

not just the science fair winners and robotics club members in science technology engineering and math STEM fields if we can keep their and our minds and options open and meet them where they are To succeed in STEM fields today girls don't have to change who they are A girl who combines her natural talents interests and dreams with STEM skills has a greater shot than ever before at a career she loves and a salary she deserves Count Girls In encourages parents and other adults to raise authentic young women who have the confidence to put STEM to work in a way that best serves them and their passions The authors both STEM professionals present compelling research in a conversational accessible style and provide specific advice and takeaways for each stage of schooling from elementary school through college followed by comprehensive STEM resources This isn't a book about raising competitive test-acing girls in lab coats this is about raising happy confident girls who realize the world of opportunities before them Daily Graphic Kingsley Inkoom,2014-09-05 Last Bell Carl Bistany,Stephanie Gruner Buckley,2015-11-05 In the mid nineties the Alfred Glickman School was just another failing school in one of America's most violent cities Then SABIS a private for profit education provider took over Twenty years later the school is a six time silver medalist in U S News World Report's annual America's Best High Schools listing and every single graduate of the school has been offered a college place With success of this magnitude you would think that for profit managed charter schools like SABIS would be in high demand On the contrary they are fought at every turn Why is the idea of employing for profit companies to help rescue failing public schools treated with fear and hostility Stranger still why does a nation built on free enterprise refuse to embrace a free market strategy when so many students and schools would clearly benefit and with so much at stake Last Bell is a book about politics money and power It examines the charge that for profits running charter schools are in it for the money not the kids and reveals the real motives of those spreading these ideas and why they fight private sector involvement in public schools Last Bell is a reasonable voice in a polarized debate It does not call for an end to public schools but rather imagines a future in which private companies help create a competitive market for public education to boost performance turn derelict schools into centers of excellence and give parents even in the worst neighborhoods real choice and their children a future Daily Graphic Ransford Tetteh,2014-09-11 Serious Games, Interaction, and Simulation Carlos Vaz de Carvalho,Paula Escudeiro,António Coelho,2016-03-24 This volume constitutes the proceedings of the 5th International Conference on Serious Games Interaction and Simulation held in Novedrate Italy in September 2015 The 16 revised full papers together with 2 keynote papers were carefully reviewed and selected for inclusion in this book They focus on the design development use and application of games for purposes other than entertainment As such they cover areas like cognition psychology technology enhanced education evaluation and assessment multimedia and information technology and feature new scientific approaches and results from experiments and real life applications **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 perennial 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

The Robot Factory Joseph Ganem, 2018-08-27 This book exposes a disturbing misuse of the scientific method to advance policies and agendas that are in fact detrimental to both science and education The author a physics professor examines two related trends in education the practice of data driven reform and the disparaging of the traditional liberal arts in favor of programs with a heavy emphasis on science and technology Many of the reforms being foisted on educators have more in common with pseudo science than real science The reduction of education to a commodity and the shilling of science as a means to enhance corporate profits lead to an impoverished and stunted understanding of science in particular and of education in general How is it possible for schools with all students learning at grade level to be rated as failing teachers to be rated as ineffective after all their students meet their learning outcomes rising grade school math standards to result in more college students needing remedial math politicians to disparage scientists and their results but argue that more students should study science These bizarre outcomes have happened and are the result of an education system that misuses and misrepresents math and science in the classroom and in crafting education policies This book exposes the flawed and fallacious thinking that is damaging education at all levels throughout the United States and makes a compelling case for rethinking the standardized optimized and quantified approaches in vogue in education today to accommodate the different needs of individual teachers and students

Descriptor Systems of Integer and Fractional Orders Tadeusz Kaczorek, Kamil Borawski, 2021-04-13 This book covers some selected problems of the descriptor integer and fractional order positive continuous time and discrete time systems The book consists of 3 chapters 4 appendices and the list of references Chapter 1 is devoted to descriptor integer order continuous time and discrete time linear systems In Chapter 2 descriptor fractional order continuous time and discrete time linear systems are considered

Chapter 3 is devoted to the stability of descriptor continuous time and discrete time systems of integer and fractional orders In Appendix A extensions of the Cayley Hamilton theorem for descriptor linear systems are given Some methods for computation of the Drazin inverse are presented in Appendix B In Appendix C some basic definitions and theorems on Laplace transforms and Z transforms are given Some properties of the nilpotent matrices are given in Appendix D

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