

## MATHEMATICS GRADE 11 NOTES

### EXAMPLES:

#### Example 1

$$(x-3)(x+5) = 9$$

$$x^2 + 5x - 3x - 15 - 9 = 0$$

$$x^2 + 2x - 24 = 0$$

$$(x+6)(x-4) = 0$$

$$x = -6 \text{ or } x = 4$$

#### Example 2

Solve for  $x$ :

$$\sqrt{x-2} + x = 4$$

$$\sqrt{x-2} = 4 - x$$

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

$$x-2 = 16-8x+x^2$$

$$x^2 - 8x + 16 - x + 2 = 0$$

$$x^2 - 9x + 18 = 0$$

$$(x-3)(x-6) = 0$$

$$x = 3 \quad \text{or} \quad x = 6$$

after checking both solutions

$x = 3$  is the only solution

#### Example 3

Solve for  $x$ :

$$15x - 4 > 9x^2$$

$$15x - 4 - 9x^2 > 0$$

$$9x^2 - 15x + 4 < 0$$

$$(3x-1)(3x-4) < 0$$



$$\frac{1}{3} < x < \frac{4}{3}$$

# Maths Paper A Linear 11th June 2013

**G Psacharopoulos**



## **Maths Paper A Linear 11th June 2013:**

**Selected Papers from IIKII 2019 conferences in Symmetry** Teen-Hang Meen, Charles Tijus, Jih-Fu Tu, 2020-12-15 The International Institute of Knowledge Innovation and Invention IIKII <http://www.iikii.org> promotes the exchange of innovations and inventions and establishes a communication platform for international innovations and research. In 2019 IIKII cooperates with the IEEE Tainan Section Sensors Council to hold IEEE conferences such as IEEE ICIASE 2019, IEEE ECBIOS 2019, IEEE ICKII 2019, ICUSA GAME 2019 and IEEE ECICE 2019. This Special Issue entitled Selected Papers from IIKII 2019 conferences aims to showcase outstanding papers from IIKII 2019 conferences including symmetry in physics, chemistry, biology, mathematics and computer science etc. It selected 21 outstanding papers from 750 papers presented in IIKII 2019 conferences on the topic of symmetry. The main goals of this Special Issue are to encourage scientists to publish their experimental and theoretical results in as much detail as possible and to discover new scientific knowledge relevant to the topic of symmetry.

**Rock Mechanics and Engineering Volume 3** Xia-Ting Feng, 2017-04-21 Analysis, Modeling, Back Analysis, Risk Analysis, Design and Stability Analysis, Overviews, Design and Stability Analysis, Coupling Process Analysis, Design and Stability Analysis, Blast Analysis and Design, Rock Slope Stability Analysis and Design, Analysis and Design of Tunnels, Caverns and Stopes. The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering. Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation. Rock Mechanics and Engineering represents a highly prestigious multi volume work edited by Professor Xia Ting Feng with the editorial advice of Professor John A Hudson. This new compilation offers an extremely wideranging and comprehensive overview of the state of the art in rock mechanics and rock engineering and is composed of peer reviewed dedicated contributions by all the key experts worldwide. Key features of this set are that it provides a systematic global summary of new developments in rock mechanics and rock engineering practices as well as looking ahead to future developments in the fields. Contributors are worldrenowned experts in the fields of rock mechanics and rock engineering though younger talented researchers have also been included. The individual volumes cover an extremely wide array of topics grouped under five overarching themes: Principles Vol 1, Laboratory and Field Testing Vol 2, Analysis, Modelling and Design Vol 3, Excavation Support and Monitoring Vol 4 and Surface and Underground Projects Vol 5. This multi volume work sets a new standard for rock mechanics and engineering compendia and will be the go to resource for all engineering professionals and academics involved in rock mechanics and engineering for years to come.

**Combinatorial Optimization** Raffaele Cerulli, Satoru Fujishige, A. Ridha Mahjoub, 2016-09-09 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Symposium on Combinatorial Optimization ISCO 2016 held in Vietri sul Mare, Italy in May 2016. The 38 revised full papers presented in this book were carefully reviewed and selected from 98 submissions. They present original research

on all aspects of combinatorial optimization such as algorithms and complexity mathematical programming operations research stochastic optimization and graphs and combinatorics

**Machine Learning, Optimization, and Data Science** Giuseppe Nicosia, Varun Ojha, Emanuele La Malfa, Giorgio Jansen, Vincenzo Sciacca, Panos Pardalos, Giovanni Giuffrida, Renato Umerton, 2021-01-07 This two volume set LNCS 12565 and 12566 constitutes the refereed proceedings of the 6th International Conference on Machine Learning Optimization and Data Science LOD 2020 held in Siena Italy in July 2020 The total of 116 full papers presented in this two volume post conference proceedings set was carefully reviewed and selected from 209 submissions These research articles were written by leading scientists in the fields of machine learning artificial intelligence reinforcement learning computational optimization and data science presenting a substantial array of ideas technologies algorithms methods and applications

*Analytic Research Foundations for the Next-Generation Electric Grid* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Analytical Research Foundations for the Next-Generation Electric Grid, 2016-05-15 Electricity is the lifeblood of modern society and for the vast majority of people that electricity is obtained from large interconnected power grids However the grid that was developed in the 20th century and the incremental improvements made since then including its underlying analytic foundations is no longer adequate to completely meet the needs of the 21st century The next generation electric grid must be more flexible and resilient While fossil fuels will have their place for decades to come the grid of the future will need to accommodate a wider mix of more intermittent generating sources such as wind and distributed solar photovoltaics Achieving this grid of the future will require effort on several fronts There is a need for continued shorter term engineering research and development building on the existing analytic foundations for the grid But there is also a need for more fundamental research to expand these analytic foundations Analytic Research Foundations for the Next Generation Electric Grid provide guidance on the longer term critical areas for research in mathematical and computational sciences that is needed for the next generation grid It offers recommendations that are designed to help direct future research as the grid evolves and to give the nation s research and development infrastructure the tools it needs to effectively develop test and use this research

*Advances in Distributed Energy Resources Aggregation for the Low Carbon Future* Qinran Hu, Qiuwei Wu, Qingxin Shi, Hantao Cui, 2023-02-15

**Global Flood Hazard** Guy J-P. Schumann, Paul D. Bates, Heiko Apel, Giuseppe T. Aronica, 2018-06-05 Global Flood Hazard Subject Category Winner PROSE Awards 2019 Earth Science Selected from more than 500 entries demonstrating exceptional scholarship and making a significant contribution to the field of study Flooding is a costly natural disaster in terms of damage to land property and infrastructure This volume describes the latest tools and technologies for modeling mapping and predicting large scale flood risk It also presents readers with a range of remote sensing data sets successfully used for predicting and mapping floods at different scales These resources can enable policymakers public planners and developers to

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