

GRADE 10
NOVEMBER EXAMINATION
MATHEMATICS PAPER 1
NOVEMBER 2022

TIME: 120 minutes
marks

100

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This question paper consists 7 pages.
Please check that your question paper is complete.
 2. Read the questions carefully.
 3. CALCULATORS ARE ALLOWED IN THIS ASSESSMENT.
 4. All the necessary working details must be clearly shown. Answers only will not necessarily be awarded full marks.
 5. It is in your own interest to write legibly and to present your work neatly.
-

QUESTION 1

(a) Solve the following:

(1) $(x - 2)(x + 1) = 0$ (2)

(2) $\frac{x - 1}{2} = 3 - \frac{x + 2}{5}$ (3)

(3) $(x + 2)(x - 3) = 6$ (4)

(4) $3,2^{x+2} - 0,75 = 0$ (3)

(b) Solve for x and y simultaneously:

$$\begin{aligned} 2x + 3y &= 10 \\ x - 4y &= -6 \end{aligned} \quad (5)$$

[17]

Mathematics Paper 1 November 201

Zhe Xu



Mathematics Paper 1 November 201:

Graph Edge Coloring Michael Stiebitz, Diego Scheide, Bjarne Toft, Lene M. Favrholdt, 2012-02-27 Features recent advances and new applications in graph edge coloring Reviewing recent advances in the Edge Coloring Problem Graph Edge Coloring Vizing's Theorem and Goldberg's Conjecture provides an overview of the current state of the science explaining the interconnections among the results obtained from important graph theory studies The authors introduce many new improved proofs of known results to identify and point to possible solutions for open problems in edge coloring The book begins with an introduction to graph theory and the concept of edge coloring Subsequent chapters explore important topics such as Use of Tashkinov trees to obtain an asymptotic positive solution to Goldberg's conjecture Application of Vizing fans to obtain both known and new results Kierstead paths as an alternative to Vizing fans Classification problem of simple graphs Generalized edge coloring in which a color may appear more than once at a vertex This book also features first time English translations of two groundbreaking papers written by Vadim Vizing on an estimate of the chromatic class of a p graph and the critical graphs within a given chromatic class Written by leading experts who have reinvigorated research in the field Graph Edge Coloring is an excellent book for mathematics optimization and computer science courses at the graduate level The book also serves as a valuable reference for researchers interested in discrete mathematics graph theory operations research

theoretical computer science and combinatorial optimization *The Calendar* University of South Africa, 1993 **The Mathematics of Paul Erdős II** Ronald L. Graham, Jaroslav Nešetřil, Steve Butler, 2013-08-04 This is the most comprehensive survey of the mathematical life of the legendary Paul Erdős 1913-1996 one of the most versatile and prolific mathematicians of our time For the first time all the main areas of Erdős's research are covered in a single project Because of overwhelming response from the mathematical community the project now occupies over 1000 pages arranged into two volumes These volumes contain both high level research articles as well as key articles that survey some of the cornerstones of Erdős's work each written by a leading world specialist in the field A special chapter Early Days rare photographs and art related to Erdős complement this striking collection A unique contribution is the bibliography on Erdős's publications the most comprehensive ever published This new edition dedicated to the 100th anniversary of Paul Erdős's birth contains updates on many of the articles from the two volumes of the first edition several new articles from prominent mathematicians a new introduction and more biographical information about Paul Erdős with an updated list of publications The second volume contains chapters on graph theory and combinatorics extremal and Ramsey theory and a section on infinity that covers Erdős's research on set theory All of these chapters are essentially updated particularly the extremal theory chapter that contains a survey of flag algebras a new technique for solving extremal problems *Resources in Education*, 1999-04 [The American Mathematical Monthly](#), 1920 [Learning Composite Mathematics - 4](#) S.K. Gupta & Anubhuti Gangal, Updated Lab activities Group activities Worksheets Projects Mental Maths Challengers Tricky questions MCQs Chapter Test Quick Review Use of

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