

BA101 – EXERCISE 1.1 (NO NEED TO SUBMIT)

1. Simplify the following algebra fractions to lowest terms.

a) $\frac{4m}{12m}$

b) $\frac{27n^2}{36n}$

c) $\frac{9p}{10p}$

d) $\frac{-5q^2}{25q^6}$

e) $\frac{12a^3b}{-8ac}$

f) $\frac{2ax + 2bx}{6x^2}$

2. Solve and simplify to lowest terms.

a) $\frac{5x-7}{x} - \frac{2x+4}{x}$

b) $-\frac{11m}{m^2} - \frac{5m}{m^2} + \frac{6m}{m^2}$

c) $f^2 + \frac{2}{f}$

d) $\frac{2g+5}{3g^2} - \frac{g-2}{4g}$

e) $-\frac{3c-7}{2c} - \frac{3c-3}{6c^2}$

f) $6y - \frac{2y}{x+y}$

g) $\frac{5}{x-3} + \frac{7}{2x-6}$

3. Multiply and simplify to lowest terms.

a) $\frac{8}{12} \times \frac{30a}{36}$

b) $-\frac{36}{9y} \times \frac{5y}{9y}$

c) $-\frac{5}{m^{\frac{3}{2}}} \times m^{\frac{2}{3}}$

d) $\frac{6r^2}{5s^2} \times \frac{10rs}{6r^3}$

e) $\frac{x^2-5x+6}{3x} \times \frac{2}{4x-12}$

4. Divide and simplify to lowest terms.

g) $\frac{6h^2g+9hg^2}{12gh}$

h) $\frac{14}{-7r+21s}$

i) $\frac{12t+12u}{3t+3u}$

j) $\frac{v^2-9}{3v+9}$

k) $\frac{2w^2-50}{w^2+8w+15}$

l) $\frac{-r^2+r+6}{3r-9}$

h) $\frac{k}{k^2-36} - \frac{4}{3k+18}$

i) $\frac{a+1}{a+1} + \frac{1}{a+1}$

j) $x-5 - \frac{x}{x+3}$

k) $\frac{2m-1}{m+2} + 2m-3$

l) $\frac{7a}{(a-1)(a+3)} + \frac{2a+5}{(a+3)(a+2)}$

m) $\frac{2a+7}{a^2-2a-15} - \frac{3a-4}{a^2-7a+10}$

f) $\frac{(a-2)^2}{4b} \times \frac{16b^2}{4-a^2}$

g) $\frac{d^2-25}{4-d^2} \times \frac{5d^2-20}{d+5}$

h) $\frac{x^2-x-2}{5} \times \frac{125}{x^2-4}$

i) $\frac{k^2-4}{6k+12} \times \frac{12-4k}{-k^2+5k-6}$

Algebra Semester 1

Yijin Wang



Algebra Semester 1:

Community College Mathematics Brian Cafarella, 2022-06-29 This book explores the rich history of community college math with a specific focus on gatekeeper math classes Gatekeeper math classes include courses such as college algebra introduction to statistics and all developmental math classes For community colleges successful completion of these classes is imperative for student retention This book presents a decade by decade analysis of the history of community college mathematics The author employs a mix of conceptual empirical and quantitative research The empirical research stems from interviews with 30 community college faculty members from seven community colleges From the 1970s to the pandemic in the early 2020s the book explores math curricula as well as trends initiatives teaching practices and mandates that have impacted community college math The positives and negatives of such trends initiatives and mandates are presented along with suggestions on how to apply such knowledge going forward The author addresses the key questions How can we build a future model for community college gatekeeper math classes that is both successful and sustainable Additionally how can we learn from the past and the present to build such a model This book will be ideal for students in graduate programs focusing on community college leadership or developmental education leadership as well as all those hoping to improve success rates in community college mathematics programs First Trilogy about Sylow Theory in Locally Finite Groups Felix F.

Flemisch, 2023-11-15 Part 1 ISBN 978 3 7568 0801 4 of the Trilogy is based on the BoD Book Characterising locally finite groups satisfying the strong Sylow Theorem for the prime p Revised edition see ISBN 978 3 7562 3416 5 The First edition of Part 1 see ISBN 978 3 7543 6087 3 removes the highlights in light green of the Revised edition adds 14 pages to the AGTA paper and 10 pages to the Revised edition It includes Reference 11 resp 10 as Appendix 1 resp Appendix 2 and calls to mind Professor Otto H Kegel's contribution to the conference Ischia Group Theory 2016 The Second edition introduces a uniform page numbering adds page numbers to the appendices improves 19 pages adds Pages 109 to 112 and a Table of Contents Part 2 ISBN 978 3 7543 3642 8 of the Trilogy is based on the author's research paper About the Strong Sylow Theorem for the Prime p in Simple Locally Finite Groups We first give an overview of simple locally finite groups and reduce their Sylow theory for the prime p to a conjecture of Prof Otto H Kegel about the rank unbounded ones of the 19 known families of finite simple groups Part 2 introduces a new scheme to describe the 19 families the family T of types defines the rank of each type and emphasises the role of Kegel covers This part presents a unified picture of known results and is the reason why our title starts with About We then apply new ideas to prove the conjecture for the alternating groups see Page ii Thereupon we remember Kegel covers and sequences Finally we suggest a plan how to prove the conjecture step by step which leads to further conjectures thereby unifying Sylow theory in locally finite simple groups with Sylow theory in locally finite and p soluble groups In Part 3 ISBN 978 3 7578 6001 1 of the Trilogy we continue the program begun in 10 to optimise along the way 1 its Theorem about the first type An of infinite families of finite simple groups step by step to further types by proving it

for the second type A PSL $_n$ We start with proving the Conjecture 2 of 10 about the General Linear Groups by using new ideas see Page ii and then break down this insight to the Special Linear and the PSL Groups We close with suggestions for future research regarding the remaining rank unbounded types the Classical Groups and the way 2 the locally finite and p soluble groups and Augustin Louis Cauchy's and various Galois contributions to Sylow theory in finite groups DOD Pam United States. Office of Armed Forces Information and Education, *Department of the Army Pamphlet*, **The Future of College Mathematics** A. Ralston, G. S. Young, 2012-12-06 The Conference Workshop of which these are the proceedings was held from 28 June to 1 July 1982 at Williams College Williamstown MA The meeting was funded in its entirety by the Alfred P Sloan Foundation The conference program and the list of participants follow this introduction The purpose of the conference was to discuss the restructuring of the first two years of college mathematics to provide some balance between the traditional calculus linear algebra sequence and discrete mathematics The remainder of this volume contains arguments both for and against such a change and some ideas as to what a new curriculum might look like A too brief summary of the deliberations at Williams is that while there were and are inevitable differences of opinion on details and nuance at least the attendees at this conference had no doubt that change in the lower division mathematics curriculum is desirable and is coming

The Strong Sylow Theorem for the Prime p in Projective Special Linear Locally Finite Groups - Part 3 of a Trilogy Dipl.-Math. Felix F. Flemisch, 2023-03-30 In Part 3 of the Trilogy Characterising Locally Finite Groups Satisfying the Strong Sylow Theorem for the Prime p About the Strong Sylow Theorem for the Prime p in Simple Locally Finite Groups The Strong Sylow Theorem for the Prime p in Projective Special Linear Locally Finite Groups we continue the program begun in 10 to optimise along the way 1 its beautiful Theorem about the first type A_n of infinite families of finite simple groups step by step to further types by proving it for the second type A PSL $_n$ We start with proving the Conjecture 2 of 10 about the General Linear Groups over commutative locally finite fields stating that their rank is bounded in terms of their p uniqueness and then break down this insight to the Special Linear Groups and the Projective Special Linear PSL Groups over locally finite fields We close with suggestions for future research regarding the remaining five rank unbounded types the Classical Groups and the way 2 regarding the locally finite and p soluble groups and regarding Augustin Louis Cauchy's and various Galois contributions to Sylow theory in finite groups **Extension of Elementary and Secondary Education Programs** United States. Congress. House. Education and Labor, 1969 **Hearings, Reports and Prints of the House Committee on Education and Labor** United States. Congress. House. Committee on Education and Labor, 1969 **Correspondence Courses Offered by Colleges and Universities Through the United States Armed Forces Institute** United States Armed Forces Institute, 1957 The Principalship from A to Z Ronald Williamson, Barbara R. Blackburn, 2016-03-22 The second edition of The Principalship from A to Z provides a set of tools that can be used immediately to improve your leadership practice Organized into 26 chapters one for each letter of the alphabet this book covers the most important and

prevalent issues and skills for leaders in today's schools including matters of limited funding juggling social media teacher evaluation student achievement school safety and collaborating with parents This accessible guide offers specific strategies that will help you navigate the complexity of your job and help you to become a more effective principal Topics new to this updated edition include A renewed focus on student learning as the first priority of a principal and updated strategies for becoming a powerful instructional coach Information about restorative justice practices and other disciplinary approaches Timely new chapters on motivating teachers and students using social media and handling limited resources Updated resources at the end of each chapter For both new and experienced leaders you'll find this book to be full of practical templates and strategies to implement immediately Many tools are available as free eResources from our website www.routledge.com 9781138899568

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