

# Solutions to Problems in Abstract Algebra by Dummit and Foote (Chapter 1)

Isaac Dobes

## 1

### 1.1

#### 1.1.1

(a)  $*$  defined on  $\mathbb{Z}$  as  $a * b = a - b$  is not associative since  $(a - b) - c = [a + (-b)] - c = [a + (-b)] + (-c) = a + [(-b) + (-c)] = a + [-1(b + c)] = a - (b + c)$ ; in general  $a - (b + c) \neq a - (b - c)$ ; e.g.,  $1 - (1 + 1) = -1 \neq 1 = 1 - (1 - 1)$

(b)  $*$  defined on  $\mathbb{R}$  as  $a * b = a + b + ab$  is associative. Observe that

$$(a * b) * c = (a + b + ab) * c = (a + b + ab) + c + (a + b + ab)c = a + b + c + ab + ac + bc + abc$$

and

$$a * (b * c) = a * (b + c + bc) = a + (b + c + bc) + a(b + c + bc) = a + b + c + ab + ac + bc + abc$$

Therefore,  $(a * b) * c = a * (b * c)$ .

(c)  $*$  defined on  $\mathbb{Q}$  as  $a * b = \frac{a+b}{5}$  is not associative. Observe that

$$(a * b) * c = \left(\frac{a+b}{5}\right) * c = \frac{\frac{a+b}{5} + c}{5} = \frac{a+b+5c}{25}$$

and

$$a * (b * c) = a * \left(\frac{b+c}{5}\right) = \frac{a + \frac{b+c}{5}}{5} = \frac{5a+b+c}{25}$$

In general,  $\frac{a+b+5c}{25} \neq \frac{5a+b+c}{25}$ ; e.g., if  $a = 1$ ,  $b = 0$ , and  $c = -1$ , then  $(a * b) * c = -\frac{1}{25} \neq \frac{1}{25} = a * (b * c)$ .

(d)  $*$  defined on  $\mathbb{Z} \times \mathbb{Z}$  as  $(a, b) * (c, d) = (ad + bc, bd)$  is associative, but it is tedious to verify and thus proof of fact is omitted.

(e)  $*$  defined on  $\mathbb{Q} \setminus \{0\}$  as  $a * b = \frac{a}{b}$  is not associative. Observe that

$$(a * b) * c = \left(\frac{a}{b}\right) * c = \frac{\frac{a}{b}}{c}$$

and

$$a * (b * c) = a * \left(\frac{b}{c}\right) = \frac{a}{\frac{b}{c}}$$

In general,  $\frac{\frac{a}{b}}{c} \neq \frac{a}{\frac{b}{c}}$ ; e.g.,  $(1 * 2) * 3 = \left(\frac{1}{2}\right) * 3 = \frac{1}{2}$ , but  $1 * (2 * 3) = 1 * \left(\frac{2}{3}\right) = \frac{3}{2} \neq \frac{1}{2}$ .

# Dummit Foote Solution Ch 13

**R Bogdan**



### **Dummit Foote Solution Ch 13:**

Fermat Equation over several fields and other historical mathematical conjectures Mercedes Orús Lacort, 2019-03-09 As a teacher of several mathematics subjects at university level and writer of several books that preceded to this one and as a result of my goal to try to explain what seemed difficult as something easy for a few years I began to investigate in several mathematics areas about possible simple proofs to complex mathematical problems This book contains the results of these investigations referring to Fermat's last theorem as well as the existence of solutions for the Fermat equation in other fields such as quadratic integers and Gaussians and conjectures such as Collatz conjecture and Goldbach strong conjecture

**Mastering Algebra** Sachin Nambeesan, 2025-02-20 Mastering Algebra is a comprehensive and student friendly exploration of fundamental principles and advanced applications of algebra tailored specifically for undergraduate students We provide a valuable resource for those seeking to deepen their understanding of algebraic theory and its diverse range of applications across various disciplines Our book starts with foundational concepts such as algebraic manipulation equation solving and functions It then progresses to more advanced topics including linear algebra abstract algebra and algebraic geometry offering a seamless transition from basic to advanced algebraic theory What sets this book apart is its emphasis on clarity coherence and practical relevance Each chapter is meticulously crafted to provide clear explanations of complex concepts supported by illustrative examples and thought provoking exercises that encourage active learning and critical thinking Furthermore Mastering Algebra highlights the practical applications of algebra in fields such as physics computer science engineering and economics demonstrating its importance and versatility in solving real world problems Whether you are a mathematics major looking to deepen your understanding of algebraic theory or a student from another discipline seeking to strengthen your quantitative skills this book is your essential companion on the journey to mastering algebra Prepare to embark on an enriching intellectual adventure that will empower you to unlock the full potential of algebraic concepts and their applications

Mathematical Insights for Cutting-Edge Solutions in Theoretical Physics: String Theory, Quantum Gravity, and Cosmology Cheek, Adrian David, Nardelli, Michele, Zhang, Hao, 2025-10-24 Continued exploration of theoretical physics presents new questions about the nature of space time and matter At the center lies an evolving integration with advanced mathematics These fields demand new insights and often inspire the development of new mathematical frameworks From the symmetries of string theory to the structures of quantum spacetime and the geometry of cosmology mathematical innovation is essential for navigating the complexities of modern physics Further examination of this convergence of disciplines may reveal cutting edge solutions that redefine our understanding of the universe Mathematical Insights for Cutting Edge Solutions in Theoretical Physics String Theory Quantum Gravity and Cosmology explores modern theoretical physics particularly string theory quantum gravity and cosmology It offers a fresh perspective on how number theory and modular functions could provide new innovative developments in emerging fields This book covers

topics such as quantum field theory geometry and arithmetic and is a useful resource for engineers mathematicians academicians researchers and scientists

*Introduction to Modern Algebra and Its Applications* Nadiya Gubareni, 2021-06-23 The book provides an introduction to modern abstract algebra and its applications It covers all major topics of classical theory of numbers groups rings fields and finite dimensional algebras The book also provides interesting and important modern applications in such subjects as Cryptography Coding Theory Computer Science and Physics In particular it considers algorithm RSA secret sharing algorithms Diffie Hellman Scheme and ElGamal cryptosystem based on discrete logarithm problem It also presents Buchberger's algorithm which is one of the important algorithms for constructing Gröbner basis

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**CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d

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**Vertex Operator Algebras, Number Theory and Related Topics** Matthew Krauel, Michael Tuite, Gaywalee Yamskulna, 2020-07-13 This volume contains the proceedings of the International Conference on Vertex Operator Algebras Number Theory and Related Topics held from June 11-15 2018 at California State University Sacramento California The mathematics of vertex operator algebras vector valued modular forms and finite group theory continues to provide a rich and vibrant landscape in mathematics and physics The resurgence of moonshine related to the Mathieu group and other groups the increasing role of algebraic geometry and the development of irrational vertex operator algebras are just a few of the exciting and active areas at present The proceedings center around active research on vertex operator algebras and vector valued modular forms and offer original contributions to the areas of vertex algebras and number theory surveys on some of the most important topics relevant to these fields introductions to new fields related to these and open problems from some of the leaders in these areas

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