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?  $ax \equiv 1 \pmod{n}$  has a solution ?  $a$  has a multiplicative inverse modulo  $n$  ?  $a \in U(n) \iff \gcd(a, n) = 1$   
Solve the congruence equation  $69x \equiv 1 \pmod{31}$ .  
Exercise 0.4:  $69 \cdot 9 + 31 \cdot (-20) = 1$  ?  
 $69 \cdot 9 \equiv 1 \pmod{31}$  ?  $69 \cdot 9 \equiv 1 \pmod{31}$  (12)

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Exercise 0.9!%,  $a \equiv b \pmod{31}$   $\iff a - b \equiv 0 \pmod{31}$  (12)

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Let  $a$  and  $b$  be two integers. If  $a \equiv b \pmod{31}$ ; then show that  $a = b + 31k$  for some integer  $k$ .  
Solution: If  $a \equiv b \pmod{31}$ ; then  $a - b = 31k$  for some integer  $k$ .  
Hence  $a = b + 31k$ ; then we obtain  $a - b = 31k$ .  
This implies  $31 \mid (a - b)$  so either  $a - b = 0$  or  $31 \mid (a - b)$ .  
If  $a - b = 0$ ; then  $a = b$  and hence  $a = b + 31k$  and we are done.

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induction, number theory, integers modulo  $n$ , and permutations. Worked examples and real-world problems help ensure a complete understanding of the subject, regardless of a reader's background in mathematics.

Finally a self-contained, one volume, graduate-level algebra text that is readable by the average graduate student and flexible enough to accommodate a wide variety of instructors and course contents. The guiding principle throughout is that the material should be presented as general as possible, consistent with good pedagogy. Therefore it stresses clarity rather than brevity and contains an extraordinarily large number of illustrative exercises.

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The American Mathematical Monthly recommended this advanced undergraduate-level text for teacher education. It starts with groups, rings, fields, and polynomials and advances to Galois theory, radicals and roots of unity, and solution by radicals. Numerous examples, illustrations, commentaries, and exercises enhance the text, along with 13 appendices. 1971 edition.

Considered a classic by many, A First Course in Abstract Algebra is an in-depth introduction to abstract algebra. Focused on groups, rings and fields, this text gives students a firm foundation for more specialized work by emphasizing an understanding of the nature of algebraic structures.

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The Second Edition of this classic text maintains the clear exposition, logical organization, and accessible breadth of coverage that have been its hallmarks. It plunges directly into algebraic structures and incorporates an unusually large number of examples to clarify abstract concepts as they arise. Proofs of theorems do more than just prove the stated results; Saracino examines them so readers gain a better impression of where the proofs come from and why they proceed as they do. Most of the exercises range from easy to moderately difficult and ask for understanding of ideas rather than flashes of insight. The new edition introduces five new sections on field extensions and Galois theory, increasing its versatility by making it appropriate for a two-semester as well as a one-semester course.

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This is the most current textbook in teaching the basic concepts of abstract algebra. The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem. Therefore, this is a hands-on manual, where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned. Each chapter begins with a statement of a major result in Group and Ring Theory, followed by problems and solutions. Contents: Tools and Major Results of Groups; Problems in Group Theory; Tools and Major Results of Ring Theory; Problems in Ring Theory; Index.

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Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

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concepts and their applications, facilitating a complete understanding for readers regardless of their background in mathematics. A wealth of computational and theoretical exercises, ranging from basic to complex, allows readers to test their comprehension of the material. In addition, detailed historical notes and biographies of mathematicians provide context for and illuminate the discussion of key topics. A solutions manual is also available for readers who would like access to partial solutions to the book's exercises.

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