

3. First note that $-(+a) = (-a) = 0$. Adding a to both sides, we have:

$$(-(-a)) + (-a)(b + a) = 0 + a = a.$$
 By associativity, we have $-(+a) + 0(-a)(b + a) = a$ and so $-(+a) + 0 = a$. Thus $-(+a) = a$.
4. From Proposition 1, we know $(a + (-a))(b) = 0$. Distributing, we have $ab + (-a)b = 0$. Adding $-ab$ to both sides, we have $(-ab + ab) + (-a)b = -ab + 0$. Thus $0 + (-a)b = -ab$ or $(-a)b = -ab$.
5. Assume that $ab = ac$ and that $a \neq 0$. By subtracting ac from both sides, we obtain $ab - ac = 0$. By distributivity, we have $a(b - c) = 0$. Since $a \neq 0$, $b - c = 0$. Adding c to both sides, we have $b = c$. Here we need the fact that for integers, if $ab = 0$, either a or b (or both) must be 0.
6. Since a divides b and a divides c , we can find integers q and r such that $b = aq$ and $c = ar$. So $(ab + ac) = (aq + ar) = a(q + r)$. Thus $a \mid (ab + ac)$.
7.

i.	$335 = 19 \cdot 17 + 12$
ii.	$-515 = (-29) \cdot 17 + 9$
iii.	$21 = 1 \cdot 13 + 8$
iv.	$13 = 1 \cdot 8 + 5$
8. Let $a \mid b$ and $a \mid c$. Then there exist integers p and q such that $b = pa$ and $c = qa$. We can multiply to get $acpq = bcd$. So bd is a multiple of ac . Thus ac divides bd .
9. If $a = qb + r$, then $-a = (-q - 1)b + (b - r)$. (Note that $0 \leq (b - r) < b$.)
10. The integers n , $n + 1$, and $n + 2$ are three consecutive integers. So one of them is a multiple of three. So the product is a multiple of 3. Notice, this can also be proved by induction.
11. **Proof by induction:**
 Base Case: Let $n = 0$. Then we have $2^{n+1} + 3^{n+1} = 2 + 3 = 5$ and 5 certainly divides 5.
 Assume that 5 divides $2^{n+1} + 3^{n+1}$ so that there is an integer q such that $5q = 2^{n+1} + 3^{n+1}$.
 Now consider $2^{n+2} + 3^{n+2}$. Note that $2^{n+2} + 3^{n+2} = 2 \cdot 2^{n+1} + 3 \cdot 3^{n+1} = 2 \cdot 2^{n+1} + 2 \cdot 3^{n+1} + 3^{n+2} - 3^{n+1}$. This equals $2(2^{n+1} + 3^{n+1}) + 3^{n+2} - 3^{n+1} = 2(5q) + 5 \cdot 3^{n+1} - 5 \cdot 3^{n+1} = 5(2q + 3^{n+1})$. Thus 5 divides $2^{n+2} + 3^{n+2}$, which proves that 5 divides $2^{n+1} + 3^{n+1}$ for all $n \geq 0$.

1.2 To the Teacher Task:

1. $42(32) = 104 \cdot 341 + 202$ in base five. In base 12, we let ten = T, and eleven = E. Then $42(32) = 130 \cdot 341 + 1E1$.

Section 1.3

1. i. 1, 2; ii. 17; iii. 1; iv. 1
2.
 - i. Any integer x that divides both m and n divides both $-m$ and $-n$ and conversely. Thus the set of common divisors of m and n is identical to the set of common divisors of $-m$ and $-n$.
 - ii. Since $|a|$ is a divisor of n , and it is the $\text{gcd}(n, n)$, since no number larger than $|a|$ can divide n .
 - iii. Since 1 divides any integer n , and no number greater than 1 divides 1, $\text{gcd}(n, 1) = 1$.

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Abstract Algebra Manual Ayman Badawi, 2004 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 **A Gentle Introduction to Group Theory** Bana Al Subaiei, Muneerah Al Nuwairan, 2023-05-31 The book is intended to serve as an introductory course in group theory geared towards second year university students It aims to provide them with the background needed to pursue more advanced courses in algebra and to provide a rich source of examples and exercises Studying group theory began in the late eighteenth century and is still gaining importance due to its applications in physics chemistry geometry and many fields in mathematics The text is broadly divided into three parts The first part establishes the prerequisite knowledge required to study group theory This includes topics in set theory geometry and number theory Each of the chapters ends with solved and unsolved exercises relating to the topic By doing this the authors hope to fill the gaps between all the branches in mathematics that are linked to group theory The second part is the core of the book which discusses topics on semigroups groups symmetric groups subgroups homomorphisms isomorphism and Abelian groups The last part of the book introduces SAGE a mathematical software that is used to solve group theory problems Here most of the important commands in SAGE are explained and many examples and exercises are provided **Algebra and Trigonometry** Sheldon Axler, 2011-03-08 Axler Algebra an innovative research based online environment for effective teaching and learning WileyPLUS sold separately from text [The Nature of Problem Solving in Algebra](#) Karl J. Smith, 2004 Liberal Arts mathematics books often cover much more material than can be addressed in a one semester course Karl Smith has created a solution to this problem with his new book THE NATURE OF PROBLEM SOLVING IN ALGEBRA Loyal customers of Karl Smith's books laud his clear writing coverage of historical topics selection of topics and emphasis on problem solving Based on the successful NATURE OF MATHEMATICS text this new book is designed to give you only the chapters and information you need when you need it Smith takes great care to provide insight into precisely what mathematics is the nature of mathematics what it can accomplish and how it is pursued as a human enterprise At the same time Smith emphasizes Polya's problem solving method throughout the text so students can take from the course an ability to estimate calculate and solve problems outside the classroom Moreover Smith's writing style gives students the confidence and ability to function mathematically in their everyday lives This new text emphasizes problem solving and estimation which along with numerous in text study aids encourage students to understand the concepts as well as mastering techniques *Catalog of Copyright*

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