

Abstract Algebra: An Introduction, 3rd

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Chapter 1

Arithmetic in $\mathbb{Z}$ Revisited

1.1 The Division Algorithm

- $q = 4, r = 1.$
 - $q = 0, r = 0.$
 - $q = -5, r = 3.$
- $q = -9, r = 3.$
 - $q = 15, r = 17.$
 - $q = 117, r = 11.$
- $q = 6, r = 19.$
 - $q = -9, r = 54.$
 - $q = 62720, r = 92.$
- $q = 15021, r = 132.$
 - $q = -14940, r = 335.$
 - $q = 39763, r = 3997.$
- Suppose $a = bq + r$, with $0 \leq r < b$. Multiplying this equation through by c gives $ac = (bc)q + rc$. Further, since $0 \leq r < b$, it follows that $0 \leq rc < bc$. Thus this equation expresses ac as a multiple of bc plus a remainder between 0 and $bc - 1$. Since by Theorem 1.1 this representation is unique, it must be that q is the quotient and rc the remainder on dividing ac by bc .
- When q is divided by c , the quotient is k , so that $q = ck$. Thus $a = bq + r = b(ck) + r = (bc)k + r$. Further, since $0 \leq r < b$, it follows (since $c \geq 1$) that $0 \leq r < bc$. Thus $a = (bc)k + r$ is the unique representation with $0 \leq r < bc$, so that the quotient is indeed k .
- Answered in the text.
- Any integer n can be divided by 4 with remainder r equal to 0, 1, 2 or 3. Then either $n = 4k$, $4k + 1$, $4k + 2$ or $4k + 3$, where k is the quotient. If $n = 4k$ or $4k + 2$ then n is even. Therefore if n is odd then $n = 4k + 1$ or $4k + 3$.
- We know that every integer a is of the form $3q$, $3q + 1$ or $3q + 2$ for some q . In the last case $a^2 = (3q + 2)^2 = 9q^2 + 12q + 4 = 3(3q^2 + 4q + 1) + 1$. Other cases are similar.
- Suppose $a = bq + r$ where $0 \leq r < a$ and $c = bq' + r'$ where $0 \leq r' < a$. If $r = r'$ then $a - c = b(q - q')$ and $k = q - q'$ is an integer. Conversely, given $a - c = ak$ we can substitute to find: $(r - r') = a(k - q + q')$. Suppose $r \geq r'$ (the other case is similar). The given inequalities imply that $0 \leq (r - r') < a$ and it follows that $a(k - q + q') < 1$ and we conclude that $k - q + q' = 0$. Therefore $r = r' = 0$, so that $a = r'$ as claimed.

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Katrin Zwirgmaier



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