Abstract Algebra: An Introduction, 3rd

Chapter 1

Arithmetic in Z Revisited

1.1 The Division Algorithm

1. (a) $q = 4, r = 1$. (b) $q = 0, r = 0$. (c) $q = -5, r = 3$.

2. (a) $q = -9, r = 3$. (b) $q = 15, r = 17$. (c) $q = 117, r = 11$.

3. (a) $q = 6, r = 19$. (b) $q = -9, r = 54$. (c) $q = 62720, r = 92$.

4. (a) $q = 15021, r = 132$. (b) $q = -14940, r = 335$. (c) $q = 39763, r = 3997$.

5. 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.

6. 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.

7. Answered in the text.

8. Any integer a can be divided by 4 with remainder r equal to 0, 1, 2 or 3. Then either $a = 4k$, $4k + 1$, $4k + 2$ or $4k + 3$, where k is the quotient. If $a = 4k$ or $4k + 2$ then a is even. Therefore if a is odd then $a = 4k + 1$ or $4k + 3$.

9. We know that every integer a is of the form $3q$, $3q + 1$ or $3q + 2$ for some q. In the last case $a^2 = (3q + 2)^2 = 27q^2 + 54q^2 + 36q + 8 = 9k + 8$ where $k = 3q^3 + 6q^2 + 4q$. Other cases are similar.

10. Suppose $a = nq + r$ where $0 \leq r < n$ and $c = nq' + r'$ where $0 < r' < n$. If $r = r'$ then $a - c = n(q - q')$ and $k = q - q'$ is an integer. Conversely, given $a - c = nk$ we can substitute to find: $(r - r') = n(k - q + q')$. Suppose $r \geq r'$ (the other case is similar). The given inequalities imply that $0 \leq (r - r') < n$ so it follows then that $r - r' = 0$ and we conclude that $k - q + q' = 0$. Therefore $r = r'$, as claimed.

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