Abstract Algebra: An Introduction, 3rd

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Chapter 1

Arithmetic in Z Revisited

1.1 The Division Algorithm

1. (a)
$$q = 4$$
, $r = 1$.

(b)
$$q = 0$$
, $r = 0$.

(a):
$$q = -5$$
, $r = 3$.

2. (a)
$$q = -9$$
, $r = 3$.

(b)
$$q = 15$$
, $r = 17$.

(a)
$$q = 117$$
, $r = 11$.

3. (a)
$$q = 6$$
, $r = 19$.

(b)
$$q = -9$$
, $r = 54$.

(a)
$$q = 62720$$
, $r = 92$.

(b)
$$q = -14940$$
, $r = 335$.

(c)
$$q = 39763$$
, $r = 3997$.

- 5. Suppose a = bq + r, with 0 ≤ r < b. Multiplying this equation through by c gives ac = (bc)q + rc. Further, since 0 ≤ r < b, it follows that 0 ≤ 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.</p>
- 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 ≤ r < b, it follows (since c≥ 1) than 0 ≤ r < bc. Thus a = (bc)k + r is the unique representation with 0 ≤ r < bc, so that the quotient is indeed k.</p>
- 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 s = 4k, 4k + 1, 4k + 2 or 4k + 3, where k is the quotient. If s = 4k or 4k + 2 then a is even. Therefore if s is odd then s = 4k + 1 or 4k + 3.
- We know that every integer a is of the focus 3q, 3q + 1 or 3q + 2 for some q. In the last case a' = (3q + 2)' = 27q' + 54q' + 36q + 8 = 94 + 8 where 4 = 3q' + 6q' + 4q. Other cases are similar.
- 10. Suppose a = nq + r where 0 ≤ 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 ≥ r' (the other case is similar). The given inequalities imply</p>

that $0 \le (r + r) \le n$ follows the $0 \le (r - r) \le 1$ for that k - q + q' = 0. Therefore r = r = 0, that k = r' and almost

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