

Abstract Algebra: An Introduction, 3rd

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Chapter 1

Arithmetic in \mathbb{Z} Revisited

1.1 The Division Algorithm

- | | | |
|---------------------------|----------------------------|----------------------------|
| (a) $q = 4, r = 1.$ | (b) $q = 0, r = 0.$ | (c) $q = -5, r = 3.$ |
| (a) $q = -9, r = 3.$ | (b) $q = 15, r = 17.$ | (c) $q = 117, r = 11.$ |
| (a) $q = 6, r = 19.$ | (b) $q = -9, r = 54.$ | (c) $q = 62720, r = 92.$ |
| (a) $q = 15021, r = 132.$ | (b) $q = -14940, r = 335.$ | (c) $q = 39763, r = 3997.$ |
- 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 $a^2 = (3q + 2)^2 = 27q^2 + 54q + 8 = 9k + 8$ where $k = 3q^2 + 6q + 4q$. Other cases are similar.
- 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 $a - c = ak$ 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 $0 \leq (r - r') < n$ and it follows that $0 \leq (k - q + q') < 1$ and we conclude that $k - q + q' = 0$. Therefore $r = r' > 0$, so that $r = r'$ as claimed.

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David Baud



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b pressure test procedures when you pressure test the bop system you must conduct a low pressure test and a high pressure test for each bop component excluding test rams and non sealing shear rams you must begin each test by conducting the low pressure test then transition to the high pressure test

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there are two elements to the pre job well site pressure test 1 wireline valve wlv pressure function test the tests should be performed on the test stump prior to rigging up and involves testing the pressure integrity of the wlv and the individual closed ram assemblies and the ram assembly functionality under pressure

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the purpose of bop stack function and pressure testing is to verify the hydraulic integrity of all the components of the bop stack at their rated working pressure in this article we will discuss the function test and pressure test procedure using cup tester

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all elmar wireline pressure control equipment is certified to be manufactured following api6a specifications to inhibitors for the pressure test the pressure test procedure for each assembly is stated on each assembly drawing equipment is stripped down rebuilt with new elastomers including bop ram outer seals and quick

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pressure all bop equipment tests must include a low pressure test of 250 psi before proceeding to the full pressure test test pressure held and recorded for a minimum of five minutes after full pressure has been established represents a satisfactory pressure test ensure rotary bushings are locked if left in place where h2s is present all

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7 31 body pressure test procedure 1 locate the test plug and test cap on to their appropriate ends 2 bleed off all air within the assembly 3 ensure all external surfaces are dry 4 pressure test to test pressure for 3 minutes 5 reduce pressure to zero and repeat test for 15 minutes minimum no leakage acceptable 7 32 bop manifold test

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feb 14 2011 1 prior to supping the well or the first time that bop is installed on the well 2 after repairing or disconnecting of any pressure sealing elements of bop 3 as per mms you can use bop for 21 days 3 weeks before you need to test it

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apr 17 2023 bop test plan bop testing consists of several pressure tests with different valve line ups in order to test all the components of the bop system careful planning is required to ensure all components are tested and in a minimum number of pressure tests in order to ensure efficient execution of drilling operations

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a wireline bop must always be installed between the wellhead and wireline lubricators this bop is a piece of pressure control equipment that can close around the wire and seal off the well pressure below it this enables the pressure to be bleed off above it allowing work or repairs to be carried out on equipment above the bop without pulling

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this unit is a pressure test system intended for pressure testing 5 000 10 000 and 15 000 psi rated pressure control equipment to maximum working pressure before performing intervention work the unit is intended for use in atex zone 1 hazardous environments and complies to norsok regulations

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