



NUMBER THEORY

For IOQM

STANDARD ALGEBRAIC IDENTITIES

DIVISIBILITY

In this section, whenever a word 'number' is used we would mean 'a natural number' unless specified otherwise. Lets consider two number 'a' and 'b' such that $b \geq a$. We say that 'b' is divisible by 'a', if 'b' is an integral multiple of 'a' i.e., 'a' is a factor of 'b'.

So, 15 is a multiple of 5 and hence 15 is divisible by 5. This is denoted by $5|15$. In general, if 'b' is divisible by 'a', then we denote it by $a|b$.

Tests of Divisibility:

Divisibility by 2

a	b
---	---

b must be divisible by 2 i.e., remainder = 0.

If the units digit of a number is 0, 2, 4, 6 or 8, then the number is divisible by 2.

For example, 2, 4, 6, 8, 10, 12,

Divisibility by 3 and 9

a	b
---	---

$a + b$ must be divisible by 3 and 9 respectively i.e., remainder = 0.

If the sum of digits of a number is divisible by 3, then the number is divisible by 3.)

For example, 6, 15, 81, 144, 282, etc.

Also, if the sum of the digits of a number is divisible by 9, then the number itself is divisible by 9.

For example, 27, 729, 72333 etc.

Divisibility by 4

a	c	b
---	---	---

cb must be divisible by 4 i.e., remainder = 0.

A number is divisible by 4 if the number formed by its last two digits (i.e., units and tens) is divisible by 4.

For example, 24, 84, 124, 1284, 156284 etc.

Divisibility by 5

a	b
---	---

b either be 0 or 5 i.e., b must be divisible by 5 i.e., remainder = 0.

If the unit's digit of a number is 0 or 5, then the number is divisible by 5.

For example, 10, 15, 100, 125, 1025 etc.

Divisibility by 6

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Zhe Xu



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Table of Contents Topics In Number Theory Algebra And Geometry

1. Understanding the eBook Topics In Number Theory Algebra And Geometry
 - The Rise of Digital Reading Topics In Number Theory Algebra And Geometry
 - Advantages of eBooks Over Traditional Books
2. Identifying Topics In Number Theory Algebra And Geometry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Topics In Number Theory Algebra And Geometry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Topics In Number Theory Algebra And Geometry
 - Personalized Recommendations
 - Topics In Number Theory Algebra And Geometry User Reviews and Ratings
 - Topics In Number Theory Algebra And Geometry and Bestseller Lists

5. Accessing Topics In Number Theory Algebra And Geometry Free and Paid eBooks
 - Topics In Number Theory Algebra And Geometry Public Domain eBooks
 - Topics In Number Theory Algebra And Geometry eBook Subscription Services
 - Topics In Number Theory Algebra And Geometry Budget-Friendly Options
6. Navigating Topics In Number Theory Algebra And Geometry eBook Formats
 - ePub, PDF, MOBI, and More
 - Topics In Number Theory Algebra And Geometry Compatibility with Devices
 - Topics In Number Theory Algebra And Geometry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Topics In Number Theory Algebra And Geometry
 - Highlighting and Note-Taking Topics In Number Theory Algebra And Geometry
 - Interactive Elements Topics In Number Theory Algebra And Geometry
8. Staying Engaged with Topics In Number Theory Algebra And Geometry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Topics In Number Theory Algebra And Geometry
9. Balancing eBooks and Physical Books Topics In Number Theory Algebra And Geometry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Topics In Number Theory Algebra And Geometry
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Topics In Number Theory Algebra And Geometry
 - Setting Reading Goals Topics In Number Theory Algebra And Geometry
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Topics In Number Theory Algebra And Geometry
 - Fact-Checking eBook Content of Topics In Number Theory Algebra And Geometry
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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