

Problem Set 1: Number Theory

Dakahlia Math Club

Week 1

Problems

1. The first two numbers that are both squares and triangles are 1 and 36. Find the next one and, if possible, the one after that. Can you figure out an efficient way to find triangular-square numbers? Do you think that there are infinitely many?
2. Try adding up the first few odd numbers and see if the numbers you get satisfy some sort of pattern. Once you find the pattern, express it as a formula. Give a geometric verification that your formula is correct.
3. The consecutive odd numbers 3, 5, and 7 are all primes. Are there infinitely many such "prime triplets"? That is, are there infinitely many prime numbers p such that $p + 2$ and $p + 4$ are also primes?
4. It is generally believed that infinitely many primes have the form $N^2 + 1$, although no one knows for sure.
 - (a) Do you think that there are infinitely many primes of the form $N^2 - 1$?
 - (b) Do you think that there are infinitely many primes of the form $N^2 - 2$?
 - (c) How about of the form $N^2 - 3$? How about $N^2 - 4$?
 - (d) Which values of a do you think give infinitely many primes of the form $N^2 - a$?
5. The following two lines indicate another way to derive the formula for the sum of the first n integers by rearranging the terms in the sum. Fill in the details.

$$\begin{aligned} 1 + 2 + 3 + \cdots + n &= (1 + n) + (2 + (n - 1)) + (3 + (n - 2)) + \cdots \\ &= (1 + n) + (1 + n) + (1 + n) + \cdots \end{aligned}$$

How many copies of $n + 1$ are in the second line? You may need to consider the cases of odd n and even n separately. If that's not clear, first try writing it out explicitly for $n = 6$ and $n = 7$.

Problems In Elementary Number Theory Problem Solving

Shasha Hu



Problems In Elementary Number Theory Problem Solving:

The book delves into Problems In Elementary Number Theory Problem Solving. Problems In Elementary Number Theory Problem Solving is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Problems In Elementary Number Theory Problem Solving, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Problems In Elementary Number Theory Problem Solving
 - Chapter 2: Essential Elements of Problems In Elementary Number Theory Problem Solving
 - Chapter 3: Problems In Elementary Number Theory Problem Solving in Everyday Life
 - Chapter 4: Problems In Elementary Number Theory Problem Solving in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Problems In Elementary Number Theory Problem Solving. This chapter will explore what Problems In Elementary Number Theory Problem Solving is, why Problems In Elementary Number Theory Problem Solving is vital, and how to effectively learn about Problems In Elementary Number Theory Problem Solving.
 3. In chapter 2, the author will delve into the foundational concepts of Problems In Elementary Number Theory Problem Solving. The second chapter will elucidate the essential principles that need to be understood to grasp Problems In Elementary Number Theory Problem Solving in its entirety.
 4. In chapter 3, this book will examine the practical applications of Problems In Elementary Number Theory Problem Solving in daily life. This chapter will showcase real-world examples of how Problems In Elementary Number Theory Problem Solving can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Problems In Elementary Number Theory Problem Solving in specific contexts. The fourth chapter will explore how Problems In Elementary Number Theory Problem Solving is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Problems In Elementary Number Theory Problem Solving. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Problems In Elementary Number Theory Problem Solving.

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