Problem Set 1: Number Theory
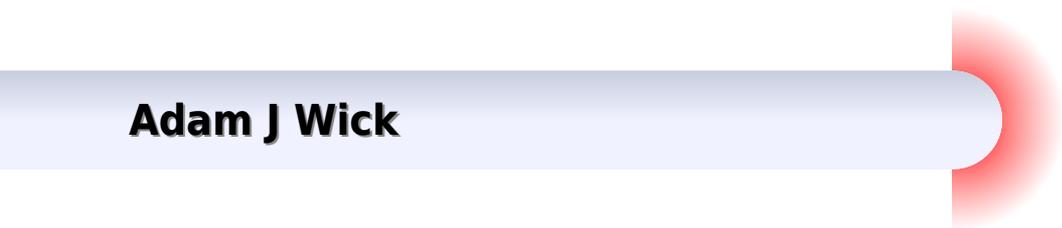
Dakahlia Math Club

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.

    $$1 + 2 + 3 + \cdots + n = (1 + n) + (2 + (n - 1)) + (3 + (n - 2)) + \cdots$$
    $$= (1 + n) + (1 + n) + (1 + n) + \cdots .$$

    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

Adam J Wick

Problems In Elementary Number Theory Problem Solving:

Number Theory Titu Andreescu,Dorin Andrica,2009-06-12 This introductory textbook takes a problem solving approach to number theory situating each concept within the framework of an example or a problem for solving Starting with the essentials the text covers divisibility unique factorization modular arithmetic and the Chinese Remainder Theorem Diophantine equations binomial coefficients Fermat and Mersenne primes and other special numbers and special sequences Included are sections on mathematical induction and the pigeonhole principle as well as a discussion of other number systems By emphasizing examples and applications the authors motivate and engage readers   Problems in Number Theory Adam J Wick,2024-02-11 Welcome to the fascinating world of elementary number theory a branch of mathematics that deals with the properties and relationships of numbers especially the integers This book is designed to introduce readers to the beauty and utility of number theory through a collection of problems and their solutions Whether you are a student educator or enthusiast this book aims to enhance your understanding of number theory in an engaging and accessible manner Number theory is often considered the queen of mathematics due to its ancient origins and pure nature It is a field that has captivated mathematicians for centuries from the early discoveries of Euclid and Diophantus to the groundbreaking work of Fermat Euler Gauss and beyond The allure of number theory lies not only in its rich history but also in its applicability to modern day cryptography computer science and problem solving This book is structured to cater to a wide audience from beginners to those with some background in number theory The problems presented range from simple exercises that reinforce basic concepts to more challenging questions that stimulate deeper thinking and exploration Each problem is carefully selected and crafted to illustrate a particular aspect of number theory with solutions provided to guide the reader through the thought process and techniques involved The journey through this book begins with the fundamentals of divisibility primes and the Euclidean algorithm gradually progressing to more complex topics such as congruences and Diophantine equations Along the way readers will encounter famous theorems and conjectures that have shaped the field including the Fundamental Theorem of Arithmetic Fermat s Little Theorem and Wilson s theorem Our goal is not only to solve problems but also to cultivate a deeper appreciation for the elegance of mathematical concepts We encourage readers to actively engage with the material to explore beyond the solutions provided and to discover the joy of uncovering truths for themselves In preparing this book we have drawn upon a wealth of sources including classic texts and contemporary research to ensure a comprehensive and enriching experience We are grateful to the many mathematicians whose work has inspired and informed these pages and we hope to pass on a fraction of their passion for number theory to our readers Whether you are embarking on this journey out of curiosity academic interest or the pursuit of mathematical beauty we welcome you May this book serve as a valuable resource and companion as you explore the intriguing world of elementary number theory   **Problem Solving in Mathematics** Thomas Butts,1973   **Problems of Number Theory in Mathematical Competitions** Hong-Bing Yu,2010

Number theory is an important research field of mathematics In mathematical competitions problems of elementary number theory occur frequently These problems use little knowledge and have many variations They are flexible and diverse In this book the author introduces some basic concepts and methods in elementary number theory via problems in mathematical competitions Readers are encouraged to try to solve the problems by themselves before they read the given solutions of examples Only in this way can they truly appreciate the tricks of problem solving   Elementary Number Theory Charles Vanden Eynden,2006-02-15 This practical and versatile text evolved from the author s years of teaching experience and the input of his students Vanden Eynden strives to alleviate the anxiety that many students experience when approaching any proof oriented area of mathematics including number theory His informal yet straightforward writing style explains the ideas behind the process of proof construction showing that mathematicians develop theorems and proofs from trial and error and evolutionary improvement not spontaneous insight Furthermore the book includes more computational problems than most other number theory texts to build students familiarity and confidence with the theory behind the material The author has devised the content organization and writing style so that information is accessible students can gain self confidence with respect to mathematics and the book can be used in a wide range of courses from those that emphasize history and type A problems to those that are proof oriented   **Elementary Number Theory** James S. Kraft,Lawrence C. Washington,2014-11-24 Elementary Number Theory takes an accessible approach to teaching students about the role of number theory in pure mathematics and its important applications to cryptography and other areas The first chapter of the book explains how to do proofs and includes a brief discussion of lemmas propositions theorems and corollaries The core of the text covers linear Diophantine equations unique factorization congruences Fermat s Euler s and Wilson s theorems order and primitive roots and quadratic reciprocity The authors also discuss numerous cryptographic topics such as RSA and discrete logarithms along with recent developments The book offers many pedagogical features The check your understanding problems scattered throughout the chapters assess whether students have learned essential information At the end of every chapter exercises reinforce an understanding of the material Other exercises introduce new and interesting ideas while computer exercises reflect the kinds of explorations that number theorists often carry out in their research   Problem Solving in School Mathematics ,1980   **Exemplary Practices for Secondary Math Teachers** Alfred S. Posamentier,Daniel Jaye,2007-03-15 Every year new secondary mathematics teachers take up positions in middle and high schools The luckiest novices receive assistance from a coach or mentor a master mathematics teacher who makes constructive comments models effective approaches and illuminates other practical aspects of teaching secondary math But many new teachers don t have this advantage and must further their development on their own If you are one of these teachers this is the book you need In these pages veteran mathematics educators Alfred S Posamentier Daniel Jaye and Stephen Krulik present a treasure chest of ideas to guide new secondary math teachers through the challenging first few

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