

Analytic Number Theory Solutions

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Introduction

This document is a work-in-progress solution manual for Tom Apostol's *Introduction to Analytic Number Theory*. The solutions were worked out primarily for my learning of the subject, as Cornell University currently does not offer an analytic number theory course at either the undergraduate or graduate level. However, this document is public and available for use by anyone. If you are a student using this document for a course, I recommend that you first try work out the problems by yourself or in a group. My math documents are stored on a math blog at www.epicmath.org.

1 The Fundamental Theorem of Arithmetic

1.1. If $(a, b) = 1$ and if $c|a$ and $d|b$, then $(c, d) = 1$.

Proof. Suppose $(c, d) = m \neq 1$, so that $m|c$ and $m|d$. Since $c|a$ and $d|b$, this implies $m|a$ and $m|b$, contradicting that $(a, b) = 1$.

1.2. If $(a, b) = (a, c) = 1$, then $(a, bc) = 1$.

Proof. Suppose $(a, bc) = m \neq 1$. Let p be any prime factor of m . Then $p|bc$ implies $p|b$ or $p|c$, assume by symmetry that $p|b$. Then $(a, b) = p$.

1.3. If $(a, b) = 1$, then $(a^n, b^k) = 1$ for all $n \geq 1, k \geq 1$.

Proof. Let $p_1^{\alpha_1} \cdots p_t^{\alpha_t}$ and $q_1^{\beta_1} \cdots q_m^{\beta_m}$ be the prime factorizations of a and b

Introduction To Analytic Number Theory Solution Manual

Shasha Hu



Introduction To Analytic Number Theory Solution Manual:

Introduction To Analytic Number Theory Solution Manual Book Review: Unveiling the Magic of Language

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