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Solution. (a) False: Let  $n=36$ ,  $a=2$ , and  $b=3$ . (b) If  $n=p_1^{2^i} p_2^{k_1} \dots p_k^{k_k}$  and  $b$  is the largest square divisor of  $n$ , then  $b=p_1^{2i} p_2^{2k_1} \dots p_k^{2k_k}$ . If  $a^2 | n$ , then  $a=p_1^{i_1} p_2^{i_2} \dots p_k^{i_k}$ , where  $i_j \leq 2k_j$ . Thus  $a^2 | b$ . Exercise 1.10. Given  $x$  and  $y$ , let  $m= ax+ by$ ,  $n= cx+ dy$ , where  $ad-bc= 1$ . Prove that  $(m;n) = (x;y)$ .

Solutions to Introduction to Analytic Number Theory Tom M ...

Sean Li Cornell University [xl6@cornell.edu](mailto:xl6@cornell.edu) Jan. 2013. 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.

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Elementary Number Theory and Its Applications is noted for its outstanding exercise sets, including basic exercises, exercises designed to help students explore key concepts, and challenging exercises. Computational exercises and computer projects are also provided. In addition to years of use and professor feedback, the fifth edition of this text has been thoroughly checked to ensure the quality and accuracy of the mathematical content and the exercises. The blending of classical theory with modern applications is a hallmark feature of the text. The Fifth Edition builds on this strength with new examples and exercises, additional applications and increased cryptology coverage. The author devotes a great deal of attention to making this new edition up-to-date, incorporating new results and discoveries in number theory made in the past few years.

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

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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.

This text provides a simple account of classical number theory, as well as some of the historical background in which the subject evolved. It is intended for use in a one-semester, undergraduate number theory course taken primarily by mathematics majors and students preparing to be secondary school teachers. Although the text was written with this readership in mind, very few formal prerequisites are required. Much of the text can be read by students with a sound background in high school mathematics.

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