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$22^{21+q} > (h_1)^{21+k} \equiv 22^{21+k} \equiv 0 \pmod{p}$ , and, in view of  $21 + CP(h_1) > 2^1$  we get Thus, the number  $22^{21+q} > (h_1)^{21+k}$  is composite and  $> a$  since  $p = 21^{21+k} \sim 22^m + \dots + k > a$ , which completes the proof. This proof fails for  $k = 1$  since we do not know if there exist infinitely many composite Fermat numbers.

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number theory, postulates a very precise answer to the question of how the prime numbers are distributed. This chapter lays the foundations for our study of the theory of numbers by weaving together the themes of prime numbers, integer factorization, and the distribution of primes. In Section 1.1, we rigorously prove that the

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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



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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.

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