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4 Chapter 1 Solutions Proof. If  $(a=b)^m = n$ , then  $a^m = b^m n = 1 = 0$ . Thus by Exercise 1.7,  $|b^m| = 1$ , and so  $b = 1$ . Next suppose  $n = a^m = b^m$  where  $(a;b) = 1$ . Then  $n = (a/b)^m$ , which we now know implies  $b = 1$ . Therefore  $n = a^m$ , i.e.  $n$  is an  $m$ th power. Exercise 1.14. If  $(a;b) = 1$  and  $ab = c^n$ , prove that  $a = x^n$  and  $b = y^n$  for some  $x$  and  $y$ . [Hint: Consider  $d = (a;c)$ .] Proof.

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Read PDF Analytic Number Theory Apostol Solutions Analytic Number Theory Apostol Solutions Exercise 1.7. A rational number  $a/b$  with  $(a;b) = 1$  is called a reduced fraction. If the sum of two reduced fractions is an integer, say  $(a/b) + (c/d) = n$ , prove that  $bd|a + c$ . Proof. Since  $n = (ad + bc)/(bd)$ , both  $b$  and  $d$  divide  $ad + bc$ . This means  $b|ad + bc$  and  $d|bc$  ...

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Analytic Number Theory Solutions Sean Li Cornell University sx16@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

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