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4 Chapter 1 Solutions Proof. If  $(a;b)^m = n$ , then  $a^m = b^m n$ . Thus  $a^m = b^m n$ . By Exercise 1.7,  $(a;b)^m = 1$ , and so  $b = 1$ . Next suppose  $n = (a;b)^m$ , 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  $a^m = c^n$ , prove that  $a = x^n$  and  $b = y^n$  for some  $x$  and  $y$ . [Hint: Consider  $d = (a;c)$ .] Proof.

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called a reduced fraction. If the sum of two reduced fractions in an integer, say  $\frac{a}{b} + \frac{c}{d} = n$ , prove that  $bd \mid a + bc$ . Proof. Since  $n = \frac{ad + bc}{bd}$ , both  $b$  and  $d$  divide  $ad + bc$ . This means  $bd \mid a + bc$  ...

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