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Solution: Writing  $17(2x + 3y) = 6z$  shows that  $z$  is divisible by 17. Because  $z$  is a prime, we must have  $z = 17$ . We can now divide the whole expression by 17 to get  $2x+3y = 6$ . Writing this as  $3y = 2(3-x)$  shows that  $y$  is divisible by 2. Because  $y$  is a prime,  $y = 2$ . Finally  $x = 0$ . • Prove that  $\sqrt{p}$  is an irrational number for any prime  $p$ . Solution: Suppose that

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(a)  $M$  is a triangular number if and only if  $1 + 8M$  is an odd square. (b)  $N$  is an odd square if and only if  $(N - 1)/8$  is a triangular number. (Note that if  $N$  is an odd square, then  $N^2 - 1$  is divisible by 8, since  $(2k + 1)^2 = 4k(k + 1) + 1$ , and  $4k(k + 1)$  is a multiple of 8.)

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4 Chapter 1 Solutions Proof. If  $(a;b)^m = n$ , then  $am = bm$   $n=1 = 0$ . Thus by Exercise 1.7,  $(a;b)^m = 1$ , and so  $b = 1$ . Next suppose  $n = m = a = b$  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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Solutions to Introduction to Analytic Number Theory Tom M ...

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$x \equiv 3 + 4 + 0 + 1 \pmod{9}$   $x \equiv 8 \pmod{9}$ . Therefore 3491 divided by 9 has remainder 8. The above example should convince you that the well known divisibility test for 9 is true: the sum of the digits of a number is divisible by 9 if and only if the original number is divisible by 9.

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5.2: Introduction to Number Theory - Mathematics LibreTexts

$221 + k \equiv 0 \pmod{p}$ , and, in view of  $21 + CP(h1) > 2'$  we get Thus, the number  $221 + k$  is composite and  $> a$  since  $p = 211 + k \sim 22m + . + k > a$ , 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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An algebraic number is any complex number that is a solution to some polynomial equation  $(x) =$  with rational coefficients; for example, every solution of  $x^2 + 1 = 0$  (say) is an algebraic number. Fields of algebraic numbers are also called algebraic number fields, or shortly number fields.

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Number theory - Wikipedia

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