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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 $a^m = b^m n = 1 = 0$. Thus by Exercise 1.7, $jbmj = 1$, and so $b = 1$. Next suppose $n^1 = m = a = b$ 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.

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

Crated on June, 2011. Problems are taken from IMO, IMO Shortlist/Longlist, and some other famous math competitions.

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$x^3 + 4x + 0 + 1 \pmod{9} = x^3 + 4x + 1 \pmod{9}$. 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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$22 + q > (h_1) + k \equiv 22 + k \equiv 0 \pmod{p}$, and, in view of $21 + CP(h_1) > 2$ we get Thus, the number $22 + q > (h_1) + k$ is composite and $> a$ since $p = 21 + k - 22m + \dots + k > a$, which completes the proof. This proof fails for $k = 1$ since we do not know if there exist infinitely many composite Fermat numbers.

250 PROBLEMS IN ELEMENTARY NUMBER THEORY

An algebraic number is any complex number that is a solution to some polynomial equation $(x) = 0$ 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.

Number theory - Wikipedia

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