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Let $e = (p-1)d$. We have $x^{p-1} - 1 = (x^d)^e - 1 = (x^d - 1)((x^d)^{e-1} + (x^d)^{e-2} + \dots + 1) = (x^d - 1)g(x)$; where $g \in (\mathbb{Z}/p\mathbb{Z})[x]$ and $\deg(g) = e - d = p-1-d$. Theorem 2.1.20 implies that $x^{p-1} - 1$ has exactly $p-1$ roots in $\mathbb{Z}/p\mathbb{Z}$, since every nonzero element of $\mathbb{Z}/p\mathbb{Z}$ is a root! By Proposition 2.5.3, g has at most $p-1-d$ roots and $x^d - 1$ has at most d roots.

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elementary number theory - Finding all solutions of $y^2 \dots$

Some Solutions for Burton's Elementary Number Theory 2 Divisibility Theory in the Integers 24 The Euclidean Algorithm 10 Given nonzero integers a and b , establish the following facts concerning $\text{lcm}(a;b)$: (a)

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$\gcd(a, b) = \text{lcm}(a, b)$ if and only if $a = b$ (b) If $k > 0$, then $\text{lcm}(ka; kb) = k \text{lcm}(a; b)$ (c) If m is

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Since $[-1/3] = -1$, we have $\{-1/3\} = -1/3 - [-1/3] = -1/3 - (-1) = 2/3$. 1.1.11. If x is an integer, then $[x] + [-x] = x - x = 0$. Otherwise, $x = z + r$, where z is an integer and r is a real number with $0 < r < 1$. In this case, $[x] + [-x] = [z + r] + [-z - r] = z + (-z - 1) = -1$. 1.1.12. Let $x = [x] + r$ where $0 \leq r < 1$.

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Number theory (or arithmetic or higher arithmetic in older usage) is a branch of pure mathematics devoted primarily to the study of the integers and integer-valued functions. German mathematician Carl Friedrich Gauss (1777–1855) said, "Mathematics is the queen of the sciences—and number theory is the queen of mathematics." Number theorists study prime numbers as well as the properties of ...

Number theory - Wikipedia

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