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Problems in Elementary Number

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Let $e = (p-1)d$. We have $x^p - 1 =$

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$(x^d)^e - 1 = (x^d - 1)((x^d)^{e-1} + (x^d)^{e-2} + \dots + 1) = (x^d - 1)g(x)$; where $g \in (\mathbb{Z}/p\mathbb{Z})[x]$ and $\deg(g) = de - d = p - 1 - d$. 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 $x^{d-1} - 1$ has at most $d - 1$ roots.

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The Euclidean Algorithm 10 Given

nonzero integers a and b , establish the
following facts concerning $\text{lcm}(a;b)$:

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- (a) $\gcd(a,b)=\text{lcm}(a,b)$ 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 $[\frac{1}{3}] = 1$, we have $\{\frac{1}{3}\} = \frac{1}{3} - [\frac{1}{3}] = \frac{1}{3} - (1) = -\frac{2}{3}$.

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1.1.11. If x is an integer, then $[x] + [\{x\}] = x + x - x = x$. Otherwise, $x = z + r$, where z is an integer and r is a real number with $0 < r < 1$. In this case, $[x] + [\{x\}] = [z + r] + [\{z + r\}] = z + (\{z + r\} - 1) = z + r = x$.

1.1.12. Let $x = [x] + r$ where $0 \leq r < 1$.

Student Solutions Manual for

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Elementary Number Theory ...

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

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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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