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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 ...

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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  $g \in \mathbb{Z}[x]$  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 Solutions

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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