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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  $x^{p-1} - 1$  has at most  $d$  roots.

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Rosen, Elementary Number Theory, 6th Edition | Pearson

shed light on analytic number theory, a subject that is rarely seen or approached by undergraduate students. One of the unique characteristics of these notes is the careful choice of topics and its importance in the theory of numbers. The freedom is given in the last two chapters because of the advanced nature of the topics that are presented.

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An Introductory Course in Elementary Number Theory

Number theory, known to Gauss as “arithmetic,” studies the properties of the integers: ... -

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3, - 2, - 1, 0, 1, 2, 3, ... Although the integers are familiar, and their properties might therefore seem simple, it is instead a very deep subject. For example, here are some problems in number theory that remain unsolved.

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### Elementary Number Theory - Joshua

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If  $x$  and  $y$  are both negative, then  $[xy] \geq [x][y]$ . If one of  $x$  and  $y$  is positive and the other negative, then the inequality could go either direction. For examples take  $x = -1.5$ ,  $y = 5$  and  $x = -1$ ,  $y = 5.5$ . In the first case we have  $[ - 1.5 \cdot 5 ] = [ - 7.5 ] = - 8 > [ - 1.5 ] [ 5 ] = - 2 \cdot 5 = - 10$ .

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Elementary Number Theory and Its Applications, 5th edition ...

Elementary number theory and its applications. This latest edition of Kenneth Rosen's widely used Elementary Number Theory and Its Applications enhances the flexibility and depth of previous editions while preserving their strengths. Rosen effortlessly blends classic theory with contemporary applications.

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Elementary number theory and its applications | Kenneth H ...

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Elementary Number Theory by Kenneth H. Rosen (2010 ...

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."

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Number theory - Wikipedia

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