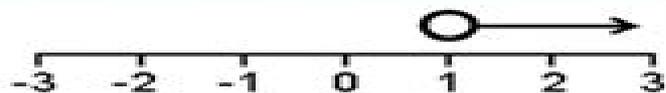


Inequalities on a Number Line

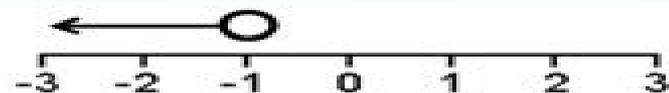
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$$x > 1$$

x is any number greater than 1

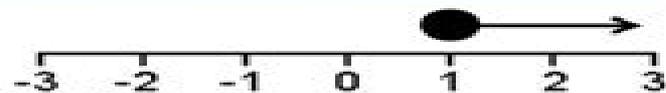
Example integers: 2, 3, 4, 5...



$$x < -1$$

x is any number less than -1

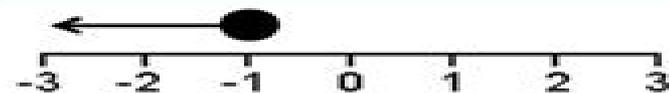
Example integers: -2, -3, -4, -5...



$$x \geq 1$$

x is any number greater than or equal to 1

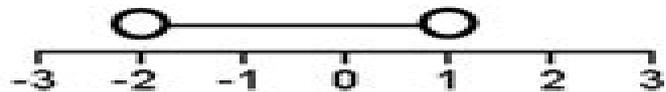
Example integers: 1, 2, 3, 4, 5...



$$x \leq -1$$

x is any number less than or equal to -1

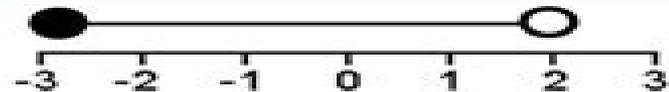
Example integers: -1, -2, -3, -4, -5...



$$-2 < x < 1$$

x is any number greater than -2 and less than 1

Example integers: -1 and 0 only



$$-3 \leq x \leq 2$$

x is any number greater than or equal to -3 and less than or equal to 2

Example integers: -3, -2, -1, 0 and 1 only

Inequalities In Number Theory

Dmitrii Konstantinovich Faddeev



Inequalities In Number Theory:

Equations and Inequalities Jiri Herman, Radan Kucera, Jaromir Simsa, 2000-03-23 A look at solving problems in three areas of classical elementary mathematics equations and systems of equations of various kinds algebraic inequalities and elementary number theory in particular divisibility and diophantine equations In each topic brief theoretical discussions are followed by carefully worked out examples of increasing difficulty and by exercises which range from routine to rather more challenging problems While it emphasizes some methods that are not usually covered in beginning university courses the book nevertheless teaches techniques and skills which are useful beyond the specific topics covered here With approximately 330 examples and 760 exercises

Analytic Number Theory, Approximation Theory, and Special Functions Gradimir V. Milovanović, Michael Th. Rassias, 2014-07-08 This book in honor of Hari M Srivastava discusses essential developments in mathematical research in a variety of problems It contains thirty five articles written by eminent scientists from the international mathematical community including both research and survey works Subjects covered include analytic number theory combinatorics special sequences of numbers and polynomials analytic inequalities and applications approximation of functions and quadratures orthogonality and special and complex functions The mathematical results and open problems discussed in this book are presented in a simple and self contained manner The book contains an overview of old and new results methods and theories toward the solution of longstanding problems in a wide scientific field as well as new results in rapidly progressing areas of research The book will be useful for researchers and graduate students in the fields of mathematics physics and other computational and applied sciences

Number Theory: Arithmetic In Shangri-la - Proceedings Of The 6th China-japan Seminar Shigeru Kanemitsu, Hongze Li, Jianya Liu, 2013-02-20 This volume is based on the successful 6th China Japan Seminar on number theory that was held in Shanghai Jiao Tong University in August 2011 It is a compilation of survey papers as well as original works by distinguished researchers in their respective fields The topics range from traditional analytic number theory additive problems divisor problems Diophantine equations to elliptic curves and automorphic L functions It contains new developments in number theory and the topics complement the existing two volumes from the previous seminars which can be found in the same book series

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Inequalities in Number Theory Dragoslav S. Mitrinović, Milan Popadić, 1978 An anthology of poetry representing well known and little known authors as well as original language and translations of works from eighth century China to contemporary America

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Reviews in Number Theory 1973-83 Richard K. Guy,1984 *Inequalities in number theory* Dragoslav S. Mitrinovic,1978

Algebraic Number Theory and Representations Dmitriï Konstantinovich Faddeev,1968 In this volume we consider a series of questions related to algebra and the theory of numbers Introduction *Number Theory* Ram Prakash Bambah,Viswa Chander Dumir,Rajinder Jeet Hans-Gill,2000 The Indian National Science Academy on the occasion ofthe Golden Jubilee Celebration Fifty years of India s Independence decided to publish a number of monographs on the selected fields The editorial board of INS A invited us to prepare a special monograph in Number Theory In reponse to this assignment we invited several eminent Number Theorists to contribute expository research articles for this monograph on Number Theory Al though some ofthose invited due to other preoccupations could not respond positively to our invitation we did receive fairly encouraging response from many eminent and creative number theorists throughout the world These articles are presented herewith in a logical order We are grateful to all those mathematicians who have sent us their articles We hope that this monograph will have a significant impact on further development in this subject R P Bambah v C Dumir R J Hans Gill A Centennial History of the Prime Number Theorem Tom M Apostol The Prime Number Theorem Among the thousands of discoveries made by mathematicians over the centuries some stand out as significant landmarks One of these is the prime number theorem which describes the asymptotic distribution of prime numbers It can be stated in various equivalent forms two of which are $\sum_{x < n} \frac{1}{x} \sim \log n$ and $\sum_{p \leq n} \frac{1}{p} \sim \log \log n$ $K(x)$ denotes the number of primes $P \leq x$ for any $x > 0$

Introduction to Analytic Number Theory Komaravolu Chandrasekharan,1968 This book s purpose is to introduce the non specialist to some of the fundamental results in the theory of numbers to show how analytical methods of proof fit into the theory and to prepare the ground for subsequent inquiry into deeper questions Pref Topics in Classical Number Theory Gábor Halász,1984 *Bulletin of Number Theory and Related Topics* ,1990 Algebra and Number Theory Burton Wadsworth Jones,1956 *Analytic Number Theory* Richard Bellman,1980 **Number Theory** K. Alladi,1982-07

Recent Progress in Analytic Number Theory Heini Halberstam,C. Hooley,1981 The papers presented in these two volumes were presented at the Durham Symposium of the London Mathematical Society which was held on the campus of

Durham University between July 22 and August 1 1979 attended by eight mathematicians from around the world

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