

Title:

Theory of Numbers in Ancient Greece

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Abstract:

The goal of this thesis is to write up clearly and comprehensibly numeric theoretical research and its results in Ancient Greece between 6 century before Christ and 4 century after Christ. In this thesis we try show examples use of Greece's Mathematics for improvement teaching in education and better understanding abstract thinking in Mathematics. We want so that students understand thinking and abilities Greece's mathematicians. We compare high school view on searching greatest common divisor and Euclidean algorithm. We present important Greece's knowledges as sieve of Eratosthenes, arithmetic of Diofantos etc.. Something of Greece's knowledges as Euclidean algorithm, sieve of Eratosthenes etc. are use of up to now.

Keywords:

Mathematics in Ancient Greece, figurate number, theory of numbers, Continual fraction, Euclidean algorithm