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# The History Of Mathematical Proof In Ancient Traditions

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## **The History Of Mathematical Proof**

In point of fact the  
history of the proof  
concept is rather  
inchoate. It is unclear  
just when  
mathematicians and  
philosophers conceived  
of the notion that  
mathematical  
assertions required

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justification. This was quite a new idea. Then it was another considerable leap to devise methods for constructing such a justification.

## **The History and Concept of Mathematical Proof**

This radical volume explores the purposes and nature of proof in a range of historical settings, overturning the view that the first

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mathematical proofs were in Greek geometry and rested on the logical insights of Aristotle. It opens the way to providing the first comprehensive, textually-based history of proof.

## **Amazon.com: The History of Mathematical Proof in Ancient ...**

The development of mathematical proof is

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primarily the product of ancient Greek mathematics, and one of its greatest achievements. Thales (624–546 BCE) and Hippocrates of Chios (c. 470–410 BCE) gave some of the first known proofs of theorems in geometry.

## **Mathematical proof - Wikipedia**

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radical, profoundly

scholarly book explores

the purposes and

nature of proof in a

range of historical

settings.

## **The History of Mathematical Proof In Ancient Traditions**

The first proof in the

history of mathematics

is considered to be

when Thales proved

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that the diameter of a circle divides a circle into two equal parts. This is the earliest known recorded attempt at proving mathematical concepts.

## **A History of Mathematical Proof: Ancient Greece to the ...**

A proof originally attributed to Aristotle (384-322 BCE), uses basic ideas

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of arithmetic. This proposes that the diagonal of a square can be represented by a rational fraction, and produces an argument that constructs a number that is both even and odd (which is not possible of course).

## **Proof: A Brief Historical Survey**

The only reason that we are one hundred percent sure that the theorem is true, is

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because a  
mathematical proof  
was presented by  
Euclid some 2300

years ago. We shall  
give his proof later.  
Another importance of  
a mathematical proof  
is the insight that it  
may offer.

## **WHAT ARE MATHEMATICAL PROOFS AND WHY THEY ARE IMPORTANT?**

Euclid (c.325- c. 265  
*Page 12/24*

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(BCE) was an ancient Greek mathematician who lived in Alexandria. He was familiar with all of the Greek mathematical work that had preceded him, so he decided to organize all this knowledge in a single coherent work.

## **Greek Mathematics - Ancient History Encyclopedia**

Early in the 20th century, the Indian

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mathematician

Srinivasa Ramanujan

developed  
exceptionally efficient

ways of calculating pi  
that were later

incorporated into  
computer algorithms.

In the early 21st  
century, computers

calculated pi to  
31,415,926,535,897

decimal places, as well  
as its two-quadrillionth

digit when expressed  
in binary (0).

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## Mathematical pi | Definition, Facts, & History | Ancient Traditions -**Britannica**

Mathematics of Ancient  
Greeks. An illustration  
of Euclid 's proof of the  
Pythagorean theorem.  
Greek mathematics  
refers to mathematics  
texts written during  
and ideas stemming  
from the Classical and  
Hellenistic periods,  
extant from the 7th  
century BC to the 4th  
century AD, around the  
shores of the Eastern

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## Proof In Ancient Greek mathematics - Wikipedia

However, they represent one of the earliest uses of proof in the history of mathematics. In his Elements, Euclid begins with a list of twenty-three definitions describing things like points, lines, plane surfaces, circles, obtuse and acute angles and so on (here,



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these are given in the  
appendix). Ancient

## Traditions **The origins of proof | plus.maths.org**

The earliest inductive proof for arithmetic sequences was introduced in the Al-Fakhri (1000) by Al-Karaji, who used it to prove the binomial theorem, Pascal's triangle, and the sum formula for integral cubes, a particular case of what is referred

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to as Waring's Problem.  
Proof In Ancient

## **Proof | Math Wiki | Fandom**

The logical status of the method of proof by mathematical induction is still a matter of disagreement among mathematicians.

Giuseppe Peano included the principle of mathematical induction as one of his five axioms for arithmetic.

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**mathematical  
induction | Ancient  
Definition, Principle,  
& Proof ...**

The History of  
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Professor Karine  
Chemla English | ISBN:  
110701221X,  
1107527538 | 2012 |  
PDF | 612 pages | 9,7  
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While billions of people believe Jesus of Nazareth was one of the most important figures in world history, many others reject the idea that he even existed at all. A 2015 survey conducted by the ...

## **The Bible Says Jesus Was Real. What Other Proof ... - HISTORY**

This mathematical

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proof was calculated  
by Professor Peter  
Stoner. He was  
chairman of the  
mathematics and  
astronomy  
departments at  
Pasadena City College  
until 1953. He then  
went to Westmont  
College in Santa  
Barbara, California,  
where he served as  
chairman of the  
science division.

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## **Proof for Christianity Is Irrefutable ...**

Noun 1. mathematical proof - proof of a mathematical theorem  
proof - a formal series of statements showing that if one thing is true something else...

Mathematical proof -  
definition of  
mathematical proof by  
The Free Dictionary

**Mathematical proof -  
definition of  
mathematical proof**

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It documents the existence of proofs in ancient mathematical writings about numbers and shows that practitioners of mathematics in Mesopotamian, Chinese and Indian cultures knew how to prove the correctness of algorithms, which are much more prominent outside the limited range of surviving classical

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Mathematical  
Greek texts that  
historians have taken  
as the paradigm of  
ancient mathematics.

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