

Mathematical Concepts and its Theories in the Vedas

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ABSTRACT

Vedas are first in numbers; viz. Rigveda, Yajurveda, Samaveda and Atharvaveda. The word 'Veda' itself means knowledge. The Vedic users invented mathematical, geometrical, astronomical, botanical formulas without which health the present development in various aspects cannot be imagined.

The Vedic civilization originated in India bears literary evidence of Indian culture, literature, astronomy and mathematics. The Vedas and Vedāṅgas are primarily religious in content but embody a large amount of astronomical and mathematical knowledge. Although the requirement of mathematics in Vedic period was clearly not for its own sake, but for the purpose of religion and astronomy, since the Vedas are not texts on mathematics, but they mention a lot of mathematical concepts.

In this paper, an attempt has been made to highlight different mathematical concepts and theories as found in the Vedas.

KEYWORDS: Area of triangle, big number of Yajurveda, concept of infinity, Concept of Algebra

INTRODUCTION

The souls of the Vedic religion have given the first literary evidence of Indian culture and hence mathematics. Though the Vedas and Vedāṅgas are primarily religious in content, but they embody a large number of astronomical knowledge. In the Vedic age the requirement for mathematics was to determine the correct times for Vedic ceremonies and the accurate construction of altar. Thus it led to the development of astronomy and geometry.

Mathematics has been found mostly in Vedāṅga Kalpa and Jyotiṣa and in the Vedas, such as Rig-Veda, Yajurveda and Atharvaveda and also in Śatapatha Brāhmaṇa. Of course, R̥gveda is considered as the oldest. They contain several mathematical concepts.

Mathematics is classified as *aparā vidyā* in the Vedic lore. There is a dialogue between Nārada and the sage, Saṁsat Kumar found in Chāndogya Upaniṣad^[1]. Here, it is said that when Nārada approaches the sage for supreme knowledge, at that time Saṁsat Kumar asks what sciences and arts he already knows. Thereupon, Nārada tells him that he was learned astronomy and arithmetic (*vidiṣiḍyā*). Thus mathematics is introduced in the scriptures as an aid and adjunct to *paravidyā*, the spiritual knowledge of Brāhmaṇa.

Mathematics is considered to be the most pre-existent and essential science. It is said in *Uddiṣṭa* Jyotiṣa as:

“*et yathā vishat mayāviditāni vidyāni mayasā pathyā/
tatsādhaviddhāni ātātātāni gopāni anāritāni chātāni*”

“As the events on the heads of geococles, as the gems on the heads of serpents, so is mathematics (to be reckoned) at the crown of the sciences known as *vidyāni*”^[2]

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The Veda Śaṁhitā is composed of hymns for various duties and also hymns praising all forms of knowledge. Thus the Vedas are not texts on mathematics but they mention a lot of mathematics, but they mention a lot of mathematical concepts. Since Vedic came down as an oral tradition for very long, no Vedic evidence is primarily indirect and is more of an indication of the kind of concepts that existed than a definition or explanation of these concepts.

Modern age is the age of globalization and of science and technology. So it is obvious to see surrounding us the wide use of mathematics in the field of science and technologies. Though mathematics is developed in later Vedic age by several mathematicians like Aryabhaṭa, Bhāskara, Pythagoras etc. but its concepts found in Vedas also. And these concepts found in the Vedas are in later period developed and explained by the mathematicians and by scholars. Here we will have a discussion about mathematical concepts in the Vedas.

R̥gveda is the oldest of the Vedas. It contains a wealth of knowledge on a variety of subjects. Some of them relate to the broader field of mathematics.

The science of geometry was first invented in India by the Hindus from the Vedic rules for the construction of sacrificial altars. Geometry is used throughout the R̥gveda. However, the emphasis was not based on proofs but on usage. On the other hand modern geometry is based on only proofs. The word geometry comes from *geo* and *metri*. *Geo* in Sanskrit means earth and *metri* means measurement. So *geometry* means measuring the earth. Some of the hymns, which deal with cosmology, imply that these poets were very familiar with geometry.

Scientific Knowledge In The Vedas Exploratory Paper

A. S. Ramanathan



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