

Third Era, 700 AD-1400 AD, Islamic Civilization

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Abstracts

The time period from 700AD to 1400 AD is said to be the most precious era in the Islamic history. In this time period Muslims ruled the world in age of science and mathematical advances and the greatest achievement was introduction of numeric system. Previously the ancient roman system of numbers was used in which letters and numbers were used and some numerical values were also used but their values depended on the letter numbers. There was no existence or concept of using 0 in numerical system. Cont... (500 words of this report)

Contents

Introduction

In fifth Century, Arabic Hindu numbering system was introduced

Main Events

875: After the introduction of numeric system, the other contribution was introduction of algebra that was a great addition by Muslims in field of mathematics, it was a concept introduced by Al-Khwarizmi. He also introduced the notion of algorithm that became foundation of various kinds of mathematical calculations in western nations too.

929: Al-Battami introduced the solution of angles of a spherical triangles.

Trigonometry was also introduced for the first time that involved use of signs of sin, coos, tan. The calculation of areas of different shapes was also created by him, like square, parallelogram and circle

1039: The concept of analytical geometry was introduced by al-Hay ham. The technique of optics was used and algebra and geometry was combined. He made an attempt to solve postulate of Euclid's

1048: Al-Biruni pushed the mathematical calendar forward and develops different instruments to be used in astronomy and physics. (Al-Daffa, 1977)

1131: One of the biggest attainment was the allegorical techniques introduced by Omar Khayyam. Different form s of equations and their solution was provided.

Conclusion

References

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