

Basic Calculus From Archimedes To Newton To Its Role In

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Calculus explained through a story ~~Basic Calculus From Archimedes To~~

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~~Basic Calculus~~

The problem was solved in 2012 in an <http://planetmath.org/squarerootof3567and29> Archimedes' square root study by: (1) step 1. guess $(1 + 2/3)^2 = 1 + 4/3 + 4/9 = (2 + 3/9 + 4/9) = 2 + 7/9 = \text{error } 2/9$. (2) step 2 reduce error $2/9 (3/10) = 1/15$ (divided $2/9$ by $[2 (1 + 2/3) = 10/3]$, and added $1/15$ such that.

~~Archimedes' calculus—PlanetMath~~

Archimedes' proof is contained in his treatise " The Quadrature of the Parabola " written in the 3rd century BC (two thousand years before modern calculus was developed by several great mathematicians including Barrow, Descartes, Fermat, Pascal, Wallis, Cavalieri, Gregory, Newton, and Leibniz).

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Archimedes was the first to find the tangent to a curve other than a circle, in a method akin to differential calculus. While studying the spiral, he separated a point's motion into two components, one radial motion component and one circular motion component, and then continued to add the two component motions together, thereby finding the tangent to the curve. [6]

~~History of calculus—Wikipedia~~

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Basic Calculus: From Archimedes to Newton to its Role in Science (PAGES 1-203) This introductory calculus text was developed by the author through his teaching of an honors calculus course at Notre Dame. The book develops calculus, as well as the necessary trigonometry and analytic geometry, from within the relevant historical context, and yet it is not a textbook in the history of mathematics as such.

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~~archimedes-calculus~~

Archimedes (c. 287 BC – c. 212 BC) was an ancient Greek mathematician, scientist and inventor who lived in the city of Syracuse in Sicily. He is considered one of the greatest mathematicians of all time and his contributions to the field include anticipating calculus ; providing the first accurate estimation of the value of pi ; and being the first to derive a formula for surface area and volume of a sphere .

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