Calculus Historical Milestones

Calculus · Answer Key · 8 Questions

1. In which year did Isaac Newton write his first manuscript on the method of fluxions, later known as calculus?

A) 1666
B) 1684
C) 1675
D) 1701

2. Gottfried Wilhelm Leibniz published his first paper on the differential calculus in which journal in 1684?

A) Philosophical Transactions
B) Acta Eruditorum
C) Journal des Savants
D) Commentarii Academiae

3. Who was the author of the first textbook on differential calculus, published in 1696?

A) Guillaume de l'Hôpital
B) Johann Bernoulli
C) Brook Taylor
D) Colin Maclaurin

4. The Fundamental Theorem of Calculus establishes a connection between which two primary operations?

A) Addition and Subtraction
B) Differentiation and Integration
C) Multiplication and Division
D) Limits and Sets

5. Brook Taylor, who derived the Taylor series expansion, lived during which years?

A) 1642-1727
B) 1685-1731
C) 1707-1783
D) 1623-1662

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6. The symbol for the integral, ?, was introduced by Leibniz in 1675 and was derived from which letter representing 'summa'?

A) S
B) I
C) L
D) D

7. Maria Gaetana Agnesi, who authored the first book discussing both differential and integral calculus in 1748, was from which country?

A) France
B) Italy
C) Germany
D) England

8. In 1947, the mathematician Abraham Robinson developed what framework to provide a rigorous basis for calculus using infinitesimals?

A) Non-standard analysis
B) Real analysis
C) Complex analysis
D) Measure theory