Outline of calculus

Calculus is a branch of mathematics focused on limits, functions, derivatives, integrals, and infinite series. This subject constitutes a major part of contemporary mathematics education. Calculus has widespread applications in science, economics, and engineering and can solve many problems for which algebra alone is insufficient.

Branches of calculus

- Differential calculus
- Integral calculus
- Multivariable calculus

History of calculus

- · History of calculus
- Important publications in calculus

General calculus concepts

- Continuous function
- Derivative
- Fundamental theorem of calculus
- Integral
- Limit
- Non-standard analysis
- Partial derivative

Calculus scholars

Sir Isaac Newton - Gottfried Leibniz

Calculus lists

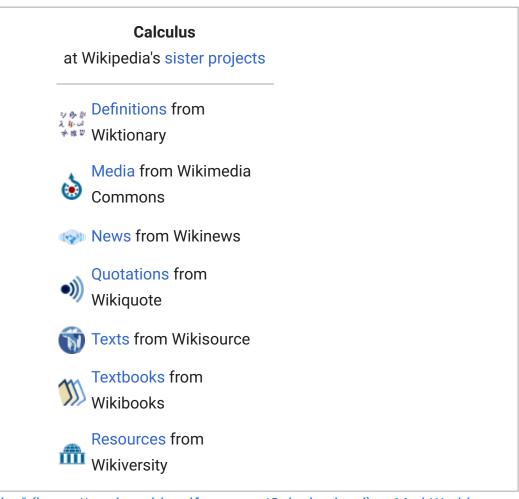
List of calculus topics

See also

- · Glossary of calculus
- Table of mathematical symbols

References

External links



- Weisstein, Eric W. "Calculus" (https://mathworld.wolfram.com/Calculus.html) . MathWorld.
- Topics on Calculus (https://planetmath.org/TopicsOnCalculus) at PlanetMath.
- Calculus Made Easy (1914) by Silvanus P. Thompson (http://djm.cc/library/Calculus_Made_Easy_ Thompson.pdf)
 Full text in PDF
- Calculus.org: The Calculus page (http://www.calculus.org) at University of California, Davis contains resources and links to other sites

- COW: Calculus on the Web (http://www.math.temple.edu/~cow/) at Temple University contains resources ranging from pre-calculus and associated algebra
- Online Integrator (WebMathematica) (https://web.archive.org/web/20080704114104/http://integrals.wolfram.com/) from Wolfram Research
- The Role of Calculus in College Mathematics (http://www.ericdigests.org/pre-9217/calculus.ht
 m) from ERICDigests.org
- OpenCourseWare Calculus (http://ocw.mit.edu/OcwWeb/Mathematics/index.htm) from the Massachusetts Institute of Technology
- Infinitesimal Calculus (https://encyclopediaofmath.org/wiki/Infinitesimal_calculus) an article
 on its historical development, in Encyclopaedia of Mathematics, Michiel Hazewinkel ed.