

# 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

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- [Differential calculus](#)
- [Integral calculus](#)
- [Multivariable calculus](#)

## History of calculus

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- [History of calculus](#)
- [Important publications in calculus](#)

## General calculus concepts

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- [Continuous function](#)
- [Derivative](#)
- [Fundamental theorem of calculus](#)
- [Integral](#)
- [Limit](#)
- [Non-standard analysis](#)
- [Partial derivative](#)

## Calculus scholars

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[Sir Isaac Newton](#) - [Gottfried Leibniz](#)

## Calculus lists

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- [List of calculus topics](#)

## See also

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- [Glossary of calculus](#)
- [Table of mathematical symbols](#)

## References

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## External links

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### Calculus

at Wikipedia's [sister projects](#)



[Definitions](#) from  
Wiktionary



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Wikiquote



[Texts](#) from Wikisource



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Wikiversity

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

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