

Closed-form expression

[@wikipedia](#)

Synonym: [Closed-form expression](#) = [Explicit expression](#)

A [mathematical expression](#) expressed using a [finite](#) number of [basic arithmetic operations](#) over the numbers and [elementary functions](#).

The key benefit of dealing with [closed-form expressions](#) is that they are

- well tabulated with precision enough for the majority of engineering applications
- implemented as fast-computable algorithms with computer precisions (usually 64 bit and 128 bit) on modern computers
- available as fast-computing algorithms with arbitrary user-defined precision

See also

[Formal science](#) / [Mathematics](#) / [Calculus](#) / [Mathematical expression](#)

[[Quadrature](#)] [[Implicit expression](#)] [[Analytic expression](#)] [[Closed-form expression](#)]